

30. Manufactures

Census of Manufactures.—The basic source of comprehensive data on manufacturing production is the Census of Manufactures conducted by the Bureau of the Census. The first Census of Manufactures covered the year 1809 and a census was taken at 10-year intervals in connection with the Decennial Census of Population up to and including 1899, with the exception of 1829. It was conducted at 5-year intervals from 1904 through 1919, and every other year from 1921 through 1939, but was suspended during the war period. The 1947 Census of Manufactures was the first to be taken since 1939. Present legislation provides for a Census of Manufactures to cover the year 1953 and every fifth year thereafter.

The 1947 Census of Manufactures covered all establishments primarily engaged in manufacturing, as defined in the 1945 revision of the Standard Industrial Classification sponsored by the Bureau of the Budget. To the extent possible, this Census was conducted on an establishment basis. As a rule, the term "establishment" signifies a single plant or factory and is not necessarily identical with the business unit or company which may consist of one or more establishments. A company operating establishments at more than one location is required to submit a report for each location; also, companies engaged in distinctly different lines of activity at one location are required to submit separate reports if separate pay roll and inventory records are kept for each activity. Census figures differ, therefore, from those prepared on a company basis. They also differ to some extent from other tabulations based on establishment reports, where the definition of an establishment as to location and line of activity is not so rigidly applied.

In the 1947 census, reports were required from all establishments employing one or more persons at any time during the census year. In other recent censuses, establishments having less than \$5,000 value of products were designated as out of the scope of the census. The change in the minimum size limit in 1947 as compared with 1939 has not appreciably affected the comparability of the figures for these two years, except for data on number of establishments for a few industries.

Each of the establishments covered in the census was classified in one of 458 manufacturing industries in accordance with the industry definitions embodied in the Standard Industrial Classification system. Under this system of classification, an industry is generally defined as a group of establishments producing a single product or a more or less closely related group of products. This product or group of products is in turn said to be "primary" to that industry. Accordingly, an establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value its production of any other group of products. In a few instances, however, the industry classification of an establishment is determined not only by the products it makes but also by the processes employed in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent. The statistics on employment, pay rolls, value added, inventories, and expenditures, therefore, reflect not only the primary activities of the establishments in that industry but also their activities of a secondary nature. For this reason the industry statistics usually cannot be directly related to statistics on the total shipments of commodities.

Comparative figures shown for 1939 are generally slightly lower than those published in the 1939 reports. The 1939 figures have been revised to exclude retail bakeries, machine-shop repairs, and some other types of establishments also omitted from the 1947 census. Cost of materials and value of products for 1947 were not compiled for summary tables because of the duplication which arises in the combination of individual industries representing successive stages in the production of finished manufactures.

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. Figures are, therefore, not shown for an industry or a geographic unit which is represented by only one or two companies, or by more companies when one or two companies produce a very large proportion of the combined output of all the companies. This restriction has no effect upon statistics by industry for the entire United States, or statistics for all industries within States and standard metropolitan areas. There are many instances, however, where this restriction makes it necessary to withhold figures for counties and cities, and for industries within States and areas.

Current and other statistics.—Monthly, quarterly, and annual commodity surveys are also conducted by the Bureau of the Census. These data are published currently in the *Facts for Industry* series. This series also includes releases of information collected by or for the War Production Board and successor agencies during the war and reconversion periods by the Census Bureau or other Federal agencies.

Reports on current activities of industries, or current movements of individual commodities, are also compiled by trade associations and trade journals, commercial agencies, and by such governmental bureaus as Labor Statistics, Agricultural Economics, Foreign and Domestic Commerce, Fish and Wildlife Service, Tariff Commission, and Internal Revenue, in addition to the Census Bureau previously mentioned.

Abbreviated balance sheet and income account data on all United States manufacturing corporations are compiled and published annually by the Bureau of Internal Revenue from corporation income and profits tax returns and holding company returns.

Data on financial operations and intercorporate relations of manufacturing corporations are collected from time to time by the Securities and Exchange Commission, the Tariff Commission, the Federal Trade Commission, and special investigating agencies. Financial statistics for certain manufacturing industries in the form of balance sheets, profit and loss statements, analyses of sales and expenses, lists of subsidiaries, types and amounts of security issues, and selected data on the salaries paid to officers and directors, are summarized and published for the leading corporations that are registered with the Securities and Exchange Commission. The Tariff Commission publishes commodity surveys which cover economic and competitive aspects of production, distribution, and international trade in selected important industries. Each survey deals with several products which are related because of the raw materials consumed, or competitive uses. The Federal Trade Commission has made several comprehensive studies of individual industries. Studies of individual industries have also been made by trade associations and private research agencies.

Material in other sections.—In addition to the statistics presented in this section, statistics on the output and activities of manufacturers will be found in various other sections of the *Statistical Abstract*. For example, data on wages and hours appear in section 8, Labor Force, Employment, and Earnings; statistics on manufacturing corporations compiled from corporation income tax returns appear in section 14, Federal Government Finances, and in section 17, Business Enterprise; and statistics on lumber production in section 26, Forests and Forest Products. For page references to the commodity or industry, consult the index. For references to the important sources of statistics on manufacturing and related activities, see the listings under the appropriate subjects in the "Bibliography of Sources of Statistical Data," page 978.

Geographic coverage.—Statistics in this section relate to continental United States except as noted.

Historical statistics.—In this section, tabular headnotes (as "See also *Historical Statistics*, series J 30-48") provide cross-references, where applicable, to *Historical Statistics of the United States, 1789-1945*. In that historical supplement to the *Statistical Abstract*, statistics are carried back year by year as far as possible. See also the historical appendix of the present issue of the *Abstract* for specific titles of series and the earliest year shown in the supplement.

No. 883.—MANUFACTURES—SUMMARY: 1849 TO 1947

[Figures for 1849 to 1910 include establishments whose products were valued at \$600 or more; for 1921 to 1939, establishments whose products were valued at \$5,000 or more; for 1947, figures cover all establishments employing 1 or more persons at any time during year. For basis of revisions beginning 1880, see General Explanations, Sec. 13 in source volumes, "Statistics for 1939 and earlier years." See also 1948 *Abstract* and *Historical Statistics*, series J 1-12, for unrevised data for 1939 and earlier years]

CENSUS YEAR	Number of establishments	Number of proprietors and firm members	ALL EMPLOYEES ¹		PRODUCTION WORKERS		Value added ³ (\$1,000)
			Number (average for year) ²	Salaries and wages (\$1,000)	Number (average for year)	Wages (\$1,000)	
Factories and hand and neighborhood industries:							
1849	123,025				957,059	230,755	463,983
1850	140,433		(4)	(4)	1,311,246	378,879	854,257
1860	252,148	(4)			2,053,996	620,467	1,395,119
1870	253,852				2,732,595	947,954	1,072,756
1880	353,864		4,586,494	2,200,058	4,129,855	1,820,854	4,102,301
1890	500,490		5,478,301	2,595,666	5,097,562	2,200,547	5,474,802
Factories, excluding hand and neighborhood industries:							
1890	204,750	(4)	4,850,010	2,268,654	4,501,919	1,892,574	4,046,981
1904	213,444	225,115	5,674,957	2,090,937	5,181,660	2,440,851	6,010,171
1909	264,810	272,421	7,012,066	4,105,470	6,261,736	3,205,213	8,160,075
1914	268,436	258,560	7,514,186	5,015,077	6,602,287	3,782,322	9,385,622
1919	270,281	249,865	9,886,801	12,426,902	8,404,916	9,004,009	23,841,024
1921	192,059	172,291	7,557,364	9,870,199	6,475,474	7,451,299	17,252,775
1923	102,006	147,058	9,474,658	12,906,460	8,104,170	10,148,624	24,569,487
1925	183,877	182,971	9,142,417	9,157,707	7,871,409	9,979,649	25,607,624
1927	187,629	182,151	9,072,052	13,123,135	7,845,070	10,094,405	26,325,304
1929	206,663	182,086	9,659,742	14,284,282	8,369,705	10,884,019	30,501,435
1931	171,450	(4)	(4)	(4)	6,163,144	6,058,541	18,600,532
1933	130,325	72,267	6,557,925	6,237,800	5,787,611	4,940,146	14,007,540
1935	167,916	81,521	8,202,205	9,564,754	7,203,794	7,311,320	18,552,553
1937	166,794	99,268	9,786,402	12,829,749	8,569,231	10,112,883	25,178,539
1939	173,802	123,655	9,527,306	12,706,102	7,808,205	8,907,515	24,487,304
1947	240,881	188,948	14,294,304	39,689,527	11,916,188	30,242,343	74,426,825

¹ Figures for 1939 and 1947 include data for employees of manufacturing establishments engaged in distribution and construction work. Extent to which data for such employees were included in figures for earlier years is not known.

² For 1899 and earlier years, data represent sum of average number of production workers for year and number of nonproduction workers reported for 1 pay-roll period (usually in October). For 1947, data represent average of 12 monthly figures.

³ Value of products less cost of materials, supplies, fuel, electricity, and contract work. For 1849-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

⁴ Not available. ⁵ Reduced to gold basis.

⁶ Excludes data for salaried officers of corporations and their salaries; therefore not strictly comparable with figures for other years.

⁷ Revised on basis of retabulation of returns to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing in 1947. Value added by manufacture prior to revision and on a basis comparable with 1937 and previous years, was \$24.7 billion.

⁸ Number of proprietors and firm members not revised. Figures for "All employees" revised on basis of estimates rather than by retabulation of 1939 reports. (See footnote 7.)

Source: Department of Commerce, Bureau of the Census; 1939 Census of Manufactures reports.

No. 884.—POPULATION, WAGE EARNERS, AND PRODUCTION—INDEXES: 1899 TO 1947

[1899=100. See also *Historical Statistics*, series J 13 for indexes of production]

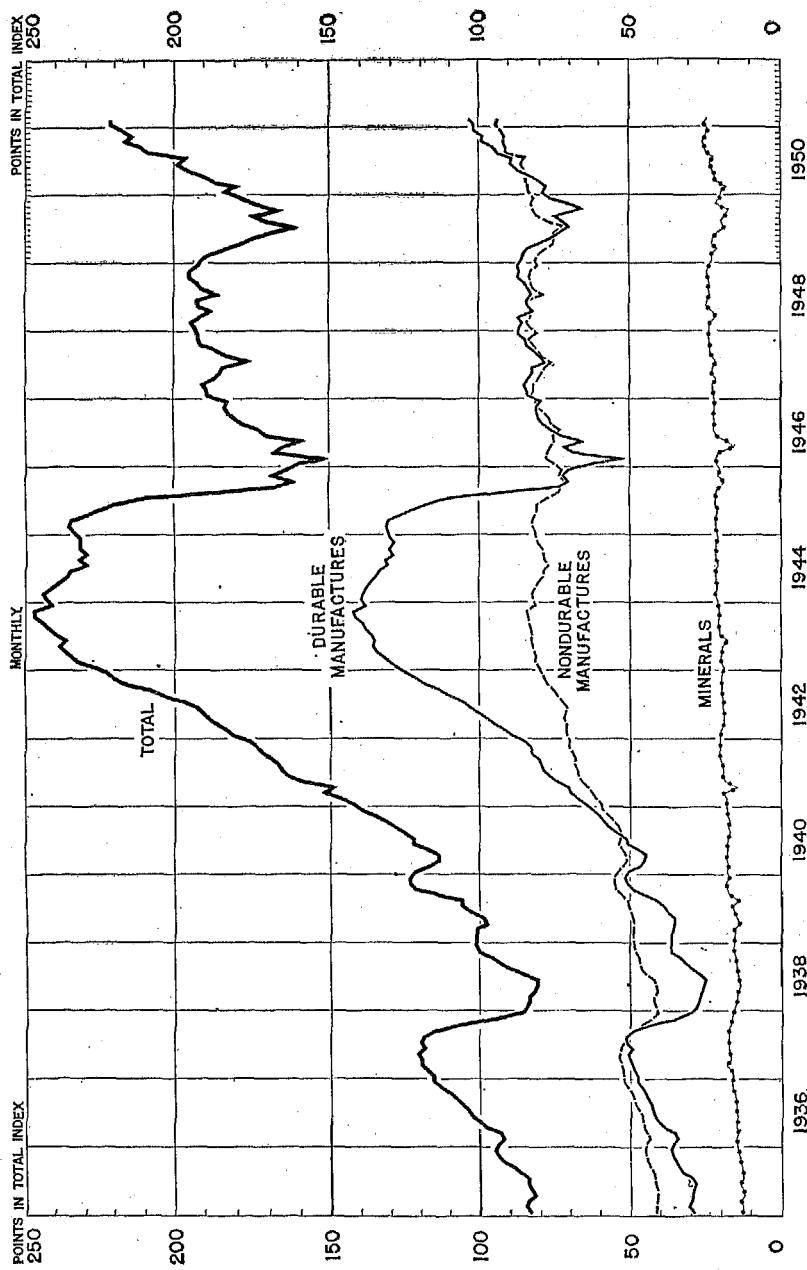
CENSUS YEAR	Popu- lation	Wage earners	Pro- duction (quan- tity) ¹	Production per wage earner	CENSUS YEAR	Popu- lation	Wage earners	Pro- duction (quan- tity) ¹	Production per wage earner
1899	100	100	100	100	1927	158	178	317	178
1904	110	115	124	108	1929	162	190	364	192
1909	121	130	158	114	1931	166	140	262	187
1914	131	147	186	127	1933	168	131	228	174
1919	140	191	222	116	1935	170	163	301	185
1921	145	147	194	132	1937	172	194	376	194
1923	149	186	280	151	1939	175	187	373	199
1925	154	178	298	167	1947	193	270	(2)	(2)

¹ Index of physical output from National Bureau of Economic Research.

² Not available.

Source: Department of Commerce, Bureau of the Census; 1939 Census of Manufactures, Vol. I, and records.

FIG. XXXVII.—INDUSTRIAL PRODUCTION INDEXES: 1935 TO 1950
 [Based on physical volume, adjusted for seasonal variation, 1935-39 average for total = 100. See table 885.]



Source: Board of Governors of the Federal Reserve System.

No. 885.—INDUSTRIAL PRODUCTION—INDEXES, BY GROUPS: 1930 TO 1950

[1935-39 average=100. For discussion of revisions beginning 1939, see Federal Reserve Bulletin, Oct. 1943; for discussion of revisions for earlier years, see Bulletins for Aug. 1940 and Sept. 1941. Monthly data adjusted for seasonal variation. See also *Historical Statistics*, series J 30-48 and G 6-8]

YEAR AND MONTH	Total	MANUFACTURES									
		Durable manufactures						Nondurable manu- factures			
		Total	Iron and steel	Machinery	Trans- portation equipment	Nons- ferrous metal and products	Lumber and products	Stone, clay, and glass products	Total	Tex- tiles and products	Leath- er and products
		Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
1930	91	90	98	97	100	91	106	96	84	74	84
1931	75	74	67	61	66	62	83	76	77	79	79
1932	58	57	41	32	43	38	52	51	70	71	76
1933	69	68	54	54	50	48	60	63	54	58	88
1934	75	74	65	61	69	69	62	64	81	76	91
1935	87	87	83	81	83	93	80	85	77	90	93
1936	103	104	108	114	105	110	104	105	103	100	104
1937	113	113	122	123	126	123	122	113	114	106	102
1938	89	87	78	68	82	72	80	90	92	95	93
1939	109	109	114	104	103	113	106	114	109	112	105
1940	125	126	139	147	136	145	139	116	124	115	114
1941	162	168	201	186	221	246	191	134	162	142	123
1942	199	212	279	199	340	464	214	134	168	158	157
1943	239	258	360	208	443	735	267	129	173	176	153
1944	235	252	358	206	438	719	250	125	164	171	148
1945	203	214	274	183	343	487	204	109	163	166	146
1946	170	177	192	150	240	232	157	131	192	165	162
1947	187	194	220	195	276	230	187	143	206	172	163
1948	192	198	225	208	277	235	193	145	206	177	170
1949	176	183	202	188	234	236	160	130	188	168	147
1950	200	209	237	229	270	261	206	160	209	187	182
March	187	194	211	205	243	214	200	156	188	181	173
June	199	208	237	231	262	277	207	155	210	184	173
September	211	220	251	245	283	284	216	166	215	194	191
December	217	228	268	253	321	203	227	173	235	196	194

YEAR AND MONTH	MANUFACTURES—continued								MINERALS		
	Nondurable manufactures—Continued								Total	Fuels	Metals
	Manufactured food products	Alco- holic bever- ages	To- bacco prod- ucts	Paper and prod- ucts	Print- ing and pub- lishing	Petro- leum and coal prod- ucts	Chem- ical prod- ucts	Rub- ber prod- ucts			
1930	100	—	—	93	79	97	89	87	78	93	91
1931	90	—	—	87	74	88	80	78	72	80	82
1932	79	—	—	79	65	74	69	68	64	67	72
1933	83	—	—	80	70	75	74	76	77	76	80
1934	88	74	87	75	80	79	88	86	80	83	58
1935	89	89	90	86	88	89	85	89	93	86	73
1936	98	100	99	98	99	97	97	99	107	99	102
1937	103	108	103	107	109	108	112	104	112	109	127
1938	101	96	102	95	96	100	96	83	97	99	86
1939	108	98	106	114	106	110	112	113	106	105	113
1940	113	101	109	123	112	120	130	123	117	114	134
1941	127	117	120	160	127	135	176	163	125	122	148
1942	134	118	131	142	115	147	278	172	129	126	148
1943	145	117	138	139	111	185	384	228	132	132	126
1944	152	144	125	139	101	247	324	234	140	145	113
1945	150	178	136	130	108	236	284	215	137	143	101
1946	149	191	156	145	127	173	226	226	134	142	88
1947	157	100	160	158	144	193	261	226	149	165	118
1948	159	182	184	164	154	218	264	206	155	161	120
1949	163	172	165	150	155	209	241	183	135	139	107
1950	165	188	168	187	170	229	264	223	148	162	125
March	165	175	176	179	169	207	247	197	144	148	119
June	164	184	170	185	170	222	261	221	151	155	130
September	167	203	172	194	172	243	271	244	163	167	141
December	162	208	183	197	176	202	282	253	157	163	120

Source: Board of Governors of the Federal Reserve System. Figures published monthly in *Federal Reserve Bulletin*.

No. 886.—MANUFACTURES—SELECTED STATISTICS, BY SIZE OF ESTABLISHMENT,
FOR MAJOR INDUSTRY GROUPS: 1947

[Value figures in thousands of dollars. Employee figures are average for year]

MAJOR INDUSTRY GROUP AND ITEM	Total all establis- ments	ESTABLISHMENTS WITH AN AVERAGE OF					
		1-9 em- ployees	10-49 em- ployees	50-99 em- ployees	100-499 employees	500-999 employees	1,000 and over
All industries, total:							
Number of establishments	210,881	117,005	80,662	18,672	19,878	2,720	1,035
All employees	14,204,304	471,887	1,805,842	1,300,719	4,160,981	1,883,464	4,671,411
Value added by manufacture	74,425,825	2,352,589	8,051,804	6,502,601	22,253,865	10,185,817	24,389,029
Food and kindred products:							
Number of establishments	30,933	20,121	14,040	2,934	2,515	216	107
All employees	1,441,847	83,456	300,226	205,485	486,450	143,044	214,186
Value added by manufacture	9,024,912	411,713	1,584,701	1,239,108	3,306,613	1,077,706	1,404,796
Tobacco manufactures:							
Number of establishments	1,086	604	202	85	147	27	21
All employees	111,782	1,897	4,763	6,054	35,639	17,943	45,486
Value added by manufacture	641,356	4,089	12,600	16,015	130,371	86,546	301,636
Textile mill products:							
Number of establishments	8,185	1,921	2,651	1,091	1,014	390	200
All employees	1,233,431	8,618	62,636	77,963	436,074	272,705	374,745
Value added by manufacture	5,340,876	56,062	270,580	313,168	1,813,278	1,148,973	1,729,815
Apparel and related products:							
Number of establishments	30,960	12,674	13,045	2,970	2,122	114	26
All employees	1,081,844	52,404	306,759	204,919	396,421	75,796	45,485
Value added by manufacture	4,443,373	350,392	1,859,604	800,235	1,461,012	275,680	187,331
Lumber and products, exc. furniture:							
Number of establishments	26,231	13,907	9,545	1,570	1,132	63	14
All employees	635,708	62,233	195,549	107,734	208,782	42,495	18,015
Value added by manufacture	2,497,192	102,537	634,602	422,479	927,486	209,432	110,686
Furniture and fixtures:							
Number of establishments	7,687	3,499	2,788	667	658	53	22
All employees	322,384	14,427	62,579	46,295	120,305	36,342	33,436
Value added by manufacture	1,377,908	58,810	251,378	197,195	550,183	170,432	149,010
Paper and allied products:							
Number of establishments	4,103	687	1,517	687	1,051	124	37
All employees	449,833	3,533	38,829	48,513	225,008	84,721	49,231
Value added by manufacture	2,874,958	16,999	106,071	302,770	1,521,553	562,275	276,200
Printing and publishing industries:							
Number of establishments	28,986	10,423	7,250	1,138	900	103	82
All employees	715,450	72,242	153,757	78,029	107,463	70,523	143,436
Value added by manufacture	4,209,410	353,725	820,494	445,256	1,177,352	457,752	1,014,877
Chemicals and allied products:							
Number of establishments	10,073	4,578	3,519	928	844	110	94
All employees	632,319	18,195	80,359	63,891	173,554	76,365	219,955
Value added by manufacture	5,305,201	127,044	650,811	522,010	1,618,357	767,678	1,670,292
Petroleum and coal products:							
Number of establishments	1,387	478	419	158	253	42	37
All employees	212,003	2,079	9,979	11,028	60,198	28,266	100,458
Value added by manufacture	2,015,307	18,682	108,525	135,106	614,224	252,454	886,316
Rubber products:							
Number of establishments	875	271	209	89	147	43	56
All employees	250,092	1,078	6,516	6,462	34,326	30,826	179,884
Value added by manufacture	1,302,863	4,740	20,848	28,454	172,195	147,260	920,357
Leather and leather products:							
Number of establishments	5,308	1,052	1,821	561	845	111	18
All employees	383,175	8,117	42,935	39,669	104,043	76,580	21,831
Value added by manufacture	1,532,803	90,333	173,246	153,606	738,052	304,337	73,229
Stone, clay, and glass products:							
Number of establishments	11,050	7,124	2,966	624	787	88	31
All employees	462,072	25,637	64,630	43,184	166,186	61,497	100,038
Value added by manufacture	2,306,480	96,290	202,646	197,921	871,428	324,224	523,971
Primary metal industries:							
Number of establishments	5,303	1,518	1,699	640	1,050	210	228
All employees	1,157,124	6,456	41,831	45,110	244,756	151,508	667,463
Value added by manufacture	5,765,484	30,570	191,901	217,572	1,373,312	815,250	3,130,769
Fabricated metal products:							
Number of establishments	16,734	7,774	5,653	1,384	1,553	254	116
All employees	971,461	31,250	129,091	90,867	326,801	172,427	215,016
Value added by manufacture	4,921,476	153,200	651,036	503,709	1,728,368	879,453	1,005,048
Machinery (except electrical):							
Number of establishments	17,906	8,432	5,825	1,341	1,096	322	290
All employees	1,645,323	33,833	128,657	93,629	370,448	226,148	692,568
Value added by manufacture	7,812,455	173,358	677,207	513,082	2,010,322	1,188,056	3,250,481
Electrical machinery:							
Number of establishments	3,973	1,281	1,206	448	698	178	162
All employees	801,359	5,375	28,589	31,698	166,162	133,091	436,444
Value added by manufacture	3,894,115	23,990	120,623	149,631	800,215	624,822	2,165,934

No. 886.—MANUFACTURES—SELECTED STATISTICS, BY SIZE OF ESTABLISHMENT,
FOR MAJOR INDUSTRY GROUPS: 1947—Continued

[Value figures in thousands of dollars. Employee figures are average for year]

MAJOR INDUSTRY GROUP AND ITEM	Total all establishments	ESTABLISHMENTS WITH AN AVERAGE OF—					
		1-9 em- ployees	10-49 em- ployees	50-99 em- ployees	100-499 employees	500-999 employees	1,000 and over
Transportation equipment:							
Number of establishments.....	3,711	1,466	1,070	307	464	146	258
All employees.....	1,181,680	5,780	25,208	21,484	102,774	103,602	922,742
Value added by manufacture.....	5,869,196	23,938	120,487	106,498	508,000	529,311	4,579,862
Instruments and related products:							
Number of establishments.....	2,500	1,270	795	195	249	40	50
All employees.....	231,997	4,690	17,604	13,440	53,586	29,230	113,441
Value added by manufacture.....	1,080,336	23,434	81,110	65,764	261,128	142,504	506,387
Miscellaneous manufactures:							
Number of establishments.....	14,131	8,025	4,382	846	754	77	47
All employees.....	464,420	30,468	90,345	59,265	152,412	50,160	75,761
Value added by manufacture.....	2,090,108	133,607	405,486	263,133	669,816	221,074	397,052

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

No. 887.—MANUFACTURES—PRIME MOVERS, MOTORS, AND GENERATORS, BY NUMBER AND RATED CAPACITY: 1899 TO 1939

[See also *Historical Statistics*, series J 11-12 for horsepower of prime movers and electric motors driven by purchased energy.]

KIND	1899	1909	1919	1929	1939
Number of establishments reporting power equipment.....	1 131,309	1 181,894	1 219,398	190,091	2 179,674
Prime movers, horsepower.....	3 9,633,215	4 16,393,467	19,432,157	19,328,300	21,230,195
Electric motors driven by purchased energy, horsepower.....	178,176	1,669,226	8,065,400	21,703,762	29,213,085
Prime movers:					
Steam engines:					
Number.....	5 127,146	5 148,001	110,609	62,395	42,538
Horsepower.....	5 7,909,241	5 13,806,053	13,346,160	9,157,755	6,533,420
Steam turbines:					
Number.....	(3)	(3)	5,655	8,883	12,631
Horsepower.....	(3)	(3)	3,098,698	7,409,748	11,205,872
Diesel and semi-Diesel engines:					
Number.....	(3)	(3)	(3)	(3)	5,311
Horsepower.....	(3)	(3)	(3)	(3)	630,181
Other internal-combustion engines:					
Number.....	6 14,231	6 33,866	6 30,080	6 10,991	10,278
Horsepower.....	6 132,961	6 739,736	6 1,223,206	6 1,203,303	1,176,044
Hydroturbines and water wheels:					
Number.....	7 23,078	7 21,226	7 13,052	6,511	3,854
Horsepower.....	7 1,453,821	7 1,819,465	7 1,763,094	1,557,503	1,603,669
Electric generators, kilowatt rating.....					
Number.....	(3)	(3)	(3)	7,501,999	9,658,828
Horsepower.....	475,842	4,582,689	15,612,644	33,844,131	45,201,319
Electric motors, total horsepower.....					
Driven by purchased energy:					
Number.....	(3)	193,898	954,916	2,655,142	4,138,287
Horsepower.....	178,176	1,669,226	8,966,400	21,703,762	29,213,085
Driven by energy generated in plant:					
Number.....	16,317	180,791	465,519	829,059	1,224,478
Horsepower.....	297,166	2,018,403	6,647,238	12,050,369	16,078,234

¹ Because of change from \$500 to \$5,000 in minimum-value-of-products limit, "Number of establishments reporting power equipment" figures for 1919 and earlier years are not comparable with those for 1929 and 1939. This change did not, however, materially impair comparability of figures for other items in this table.

² Returns for "Logging camps and logging contractors (not operating mills)," numbering 967, were excluded from power tabulations.

³ Includes 47,192 horsepower reported as other owned power, not distributed by type of prime mover.

⁴ Includes 28,213 horsepower reported as other owned power, not distributed by type of prime mover.

⁵ Figures for "Steam engines" include data for "Steam turbines," not reported separately.

⁶ Figures for "Other internal-combustion engines" include data for "Diesel and semi-Diesel engines," not reported separately.

⁷ Includes data for water motors.

⁸ Not available.

Source: Department of Commerce, Bureau of the Census; 1939 Census of Manufactures reports, Vol. I.

No. 888.—MANUFACTURES—PRINCIPAL FUELS AND ELECTRIC ENERGY CONSUMED,
BY MAJOR INDUSTRY GROUP: 1939 AND 1947

[Excludes fuels produced and consumed in the same establishment and fuels used as a raw material for further manufacture]

INDUSTRY GROUP AND YEAR	Coal <i>1,000 tons</i>	Coke <i>1,000 tons</i>	Fuel oil <i>1,000 barrels</i>	Natural gas <i>Million cu. ft.</i>	Other gas ¹ <i>Million cu. ft.</i>	Electric energy <i>Million kw.-hrs.</i>
All industries:						
1939.....	280,161	35,001	97,362	633,245	1,207,161	270,518
1947.....	110,369	66,171	166,947	1,238,311	2,766,642	140,947
Food and kindred products:						
1939.....	11,484	271	11,378	70,560	10,301	6,339
1947.....	13,209	195	15,314	108,785	16,927	10,180
Tobacco manufactures:						
1939.....	260	3	86	16	25	115
1947.....	489	(3)	121	44	32	219
Textile mill products:						
1939.....	6,018	11	9,236	2,717	609	6,802
1947.....	6,612	18	11,320	5,435	1,290	10,041
Apparel and related products:						
1939.....	371	3	453	1,385	1,085	360
1947.....	611	5	732	2,000	1,245	850
Lumber and products, except furniture:						
1939.....	838	6	944	2,092	74	1,415
1947.....	876	(3)	3,251	3,185	81	2,338
Furniture and fixtures:						
1939.....	839	3	104	303	236	365
1947.....	1,017	6	436	2,002	1,022	826
Paper and allied products:						
1939.....	10,303	26	6,725	32,695	796	9,502
1947.....	14,875	12	11,008	68,940	1,802	15,380
Printing and publishing industries:						
1939.....	478	3	603	2,189	4,292	850
1947.....	371	4	745	4,581	3,510	1,280
Chemicals and allied products:						
1939.....	9,029	422	11,174	55,769	14,413	9,583
1947.....	18,988	2,113	16,673	154,824	19,258	19,610
Petroleum and coal products:						
1939.....	1,540	1	2,413	118,873	104,307	3,452
1947.....	2,572	41	3,630	414,469	282,403	6,408
Rubber products:						
1939.....	1,871	1	671	3,732	1,094	1,584
1947.....	2,842	3	1,460	7,656	276	3,445
Leather and leather products:						
1939.....	1,066	(3)	394	850	103	402
1947.....	1,220	3	763	448	284	573
Stone, clay, and glass products:						
1939.....	12,515	184	8,022	145,964	4,527	4,496
1947.....	16,985	370	14,079	222,334	27,461	7,808
Primary metal industries:						
1939.....	13,696	33,401	35,400	149,135	1,046,626	17,632
1947.....	15,669	61,797	64,372	168,387	2,335,077	40,615
Fabricated metal products:						
1939.....	1,899	264	3,018	11,697	6,241	1,725
1947.....	2,307	405	5,230	20,690	15,826	3,901
Machinery (except electrical):						
1939.....	2,877	312	3,075	10,270	5,368	2,093
1947.....	4,195	650	6,260	25,637	11,100	5,921
Electrical machinery:						
1939.....	1,278	13	1,253	3,303	2,672	1,405
1947.....	2,101	188	2,268	6,587	6,298	3,616
Transportation equipment:						
1939.....	1,895	110	1,193	6,929	1,948	1,810
1947.....	4,532	340	5,258	20,011	38,274	6,061
Instruments and related products:						
1939.....	180	8	262	4,848	1,033	215
1947.....	385	2	567	503	1,348	545
Miscellaneous manufactures:						
1939.....	824	0	849	909	1,411	407
1947.....	953	13	1,970	1,793	2,548	1,114

¹ Includes blast furnace gas, except that consumed at blast furnaces.

² Revised after publishing the 1947 Census of Manufactures volumes.

³ Less than 500.

CONCENTRATION OF OUTPUT

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No. 889.—PROPORTION OF OUTPUT CONCENTRATED IN LARGEST MANUFACTURING COMPANIES: 1947 AND 1935

[Represents industries having shipments of one billion dollars and over; arrayed in order of value of shipments in 1947. Although industry classifications have changed considerably since the 1935 Census, direct comparisons are possible between 1947 and 1935 concentrations for 10 industries shown]

INDUSTRY	Number of companies	Value of shipments (\$1,000)	1947				1935 CONCENTRATION RATIOS	
			CONCENTRATION RATIOS				First 4 companies	First 8 companies
			First 4 companies	First 8 companies	First 20 companies	First 50 companies		
Motor vehicles and parts	779	13,577,404	55.7	63.6	77.8	88.5	-----	-----
Meat packing, wholesale	1,909	1,976,006	41.3	53.6	62.5	68.8	-----	-----
Steel works and rolling mills	111	1,275,697	44.7	62.8	81.1	94.2	-----	-----
Petroleum refining	277	6,623,708	37.3	58.8	82.7	91.7	38.2	68.0
Cotton broad woven fabrics	422	3,294,623	13.1	22.2	40.4	63.2	-----	-----
Paper and board mills	453	2,812,048	15.6	23.7	36.5	56.4	-----	-----
Sawmills and planing mills, general	19,223	2,526,927	5.4	7.2	11.0	17.9	-----	-----
Flour and meal	1,084	2,511,543	29.0	40.6	56.7	72.2	20.4	37.0
Bread and other bakery products	5,985	2,416,891	16.4	25.9	36.3	45.9	-----	-----
Prepared animal feeds	2,372	2,130,263	18.8	26.7	39.8	53.3	23.0	34.3
Newspapers	8,115	1,917,302	20.9	26.0	35.6	40.0	-----	-----
Footwear, except rubber	1,077	1,716,980	27.9	34.7	45.0	55.3	-----	-----
Blast furnaces	33	1,713,045	67.3	82.1	95.5	-----	66.0	82.8
Canning and preserving, except fish	1,850	1,640,754	26.7	34.0	45.5	57.6	-----	-----
Prepared meats	941	1,235,637	29.5	39.6	49.6	62.5	-----	-----
Tires and inner tubes	35	1,547,040	76.6	89.6	99.3	-----	80.9	90.4
Radios and related products	709	1,773,233	25.6	35.3	54.4	78.0	-----	-----
Commercial printing	11,810	1,521,655	9.1	13.4	20.3	28.7	-----	-----
Paperboard boxes	1,323	1,475,438	17.9	27.4	40.7	56.6	14.1	20.7
Organic chemicals, n. e. c.	188	1,445,210	47.0	64.4	86.4	95.8	-----	-----
Men's and boys' suits and coats	1,761	1,411,575	8.8	15.3	26.1	39.0	-----	-----
Refrigeration machinery	542	1,597,486	39.1	54.5	71.6	84.1	-----	-----
Woolen and worsted fabrics	427	1,355,200	28.1	40.4	56.0	71.7	-----	-----
Dresses, unit price	4,165	1,353,068	2.6	4.7	9.3	16.9	-----	-----
Malt liquors	404	1,317,854	21.4	30.0	43.8	64.0	11.8	17.7
Food preparations, n. e. c.	1,801	1,312,466	31.8	40.8	52.8	64.8	-----	-----
Paints and varnishes	1,154	1,248,841	27.3	35.7	48.2	60.9	-----	-----
Gray-iron foundries	1,554	1,172,671	16.3	23.6	35.3	48.1	-----	-----
Metal stampings	1,954	1,164,209	17.4	25.3	37.1	51.5	-----	-----
Heating and cooking apparatus, n. e. c.	792	1,134,085	11.7	20.2	37.1	57.4	-----	-----
Cigarettes	19	1,131,891	90.4	99.7	-----	-----	89.7	99.4
Soap and glycerin	223	1,085,789	79.0	85.9	92.7	97.1	73.5	83.1
Periodicals	2,106	1,085,616	34.3	43.1	57.7	71.0	-----	-----
Leather tanning and finishing	500	1,070,085	26.5	38.6	56.1	74.7	22.5	34.3
Copper rolling and drawing	56	1,063,658	60.1	76.5	92.2	100.0	-----	-----
Motors and generators	224	1,007,186	58.6	66.0	80.4	93.0	-----	-----
Women's suits and coats	2,464	1,003,755	4.8	7.9	15.4	26.5	-----	-----
Rayon & related broad woven fabrics	432	1,002,923	30.7	39.3	56.0	76.4	-----	-----

¹ Value added by manufacture; value of shipments not used for concentration ratios because of excessive duplication in these industries owing to the use of products of other industries as materials. Rank determined by value of shipments, however.

Source: Department of Commerce. Letter from Secretary of Commerce to Chairman, House of Representatives Subcommittee on Study of Monopoly Power (Celler Committee), with attachments (processed), Dec. 1, 1949. Based on 1947 Census of Manufactures.

MANUFACTURES

NO. 890.—CONCENTRATION IN MANUFACTURING AS MEASURED BY HOLDINGS OF 113 LARGEST CORPORATIONS: 1947

[**Millions of dollars.** Data for corporations with assets in excess of \$100,000,000 each in 1947, based on consolidated reports of 113 largest manufacturing corporations and reflect their total activities, manufacturing and nonmanufacturing]

ASSETS	113 corporations	Total manufacturing ¹	Percent of total	LIABILITIES	113 corporations	Total manufacturing ¹	Percent of total
Total	42,197.3	105,369.2	40.0	Total	42,197.3	105,369.2	40.0
Current assets, total	22,371.8	62,649.4	35.7	Current liabilities, total	7,703.6	23,449.3	33.2
Cash	4,340.3	12,072.8	36.0	Bank loans payable within 1 year	545.2	3,008.7	18.1
U. S. Government securities	3,433.0	7,387.3	46.5	Other notes and accounts payable	3,088.6	8,333.6	37.1
Other marketable securities	127.3	759.7	16.8	Federal income taxes accrued	2,610.2	7,669.1	34.0
Accounts and notes receivable—net	4,155.2	13,078.9	31.8	Other current liabilities	1,549.8	4,436.5	34.9
Inventories	10,175.1	28,590.5	35.6	Long-term debt and other liabilities	5,070.0	9,450.7	53.6
Other current assets	140.9	760.1	18.5	Stockholders' equity	20,333.9	72,470.8	40.5
Property, plant and equipment—net	10,093.4	34,907.0	46.1				
Other assets including deferred charges	3,732.1	7,812.7	47.8				

¹ Includes an adjustment of 8 percent to allow for nonincorporated enterprises.

Source: Federal Trade Commission; Report on The Concentration of Productive Facilities, 1947.

NO. 891.—MERGERS AND ACQUISITIONS OF MANUFACTURING AND MINING CONCERNs, BY INDUSTRY: 1940 TO 1947

[Figures based on actions reported by Moody's Investors Service and Standard and Poor's Corporation, and as such excludes an unknown number of unreported acquisitions and mergers]

INDUSTRY OF ACQUIRING COMPANY	Total number of firms merged or acquired	Percent	INDUSTRY OF ACQUIRING COMPANY	Total number of firms merged or acquired	Percent
Grand total	12,062	100.0	Durable goods industries, total	803	38.9
Nondurable goods industries, total	1,084	52.6	Primary metals	134	6.5
Food and kindred products	369	17.9	Iron and steel (basic)	105	5.1
Food	270	13.1	Other primary metals	29	1.4
Beverages	99	4.8	Fabricated metals	107	5.2
Tobacco manufactures	4	.2	Nonelectric machinery	167	8.1
Textiles and apparel	1,164	7.5	Electric machinery	105	5.1
Paper and allied products	84	4.1	Transportation equipment	140	7.2
Printing and publishing	28	1.4	Professional and scientific instruments	27	1.3
Chemicals	212	10.2	Lumber and furniture	50	2.4
Drugs and medicines	83	4.0	Stone, clay, and glass products	64	3.1
Other chemicals	129	6.2	Other, total	175	8.5
Petroleum and coal products	157	7.6	Mining	71	3.4
Rubber products	25	1.2	Nonmanufacturing	104	5.1
Leather products	19	.9			
Miscellaneous manufacturing	32	1.6			

¹ Excludes an additional 388 cases reported in Textile World, 1940-47.

Source: Federal Trade Commission; Report of the Federal Trade Commission on the Merger Movement.

No. 892.—MANUFACTURES—GENERAL STATISTICS, BY MAJOR INDUSTRY GROUPS: 1947 AND 1939

(Figures for 1939 adjusted for comparability with 1947. See general note, p. 737)

MANUFACTURES BY INDUSTRY

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INDUSTRY GROUP	1947				1939			
	Number of establishments and firm members	All employees 1		Production workers		Number of production workers (average for the year)	Number of establishments	Value added by manufacture (\$1,000) 2
		Number (average for the year)	Salaries and wages total (\$1,000)	Number (average for the year)	Wages total (\$1,000)			
All industries, total	240,881	188,948	\$49,689,527	11,916,188	\$30,242,343	\$74,425,825	173,802	\$24,487,304
Food and kindred products	31,430	1,441,847	3,789,387	1,069,478	2,572,190	9,024,912	43,697	802,133
Tobacco manufactures	8,086	1,712,732	1,063,838	1,175,318	6,441,356	7,765	87,325	3,484,656
Textile mill products	8,185	1,233,431	2,830,166	1,147,194	2,449,312	5,340,876	1,081,710	350,152
Apparel and related products	30,960	24,830	5,227,499	2,015,220	4,442,373	20,275	6,388	817,986
Lumber and products (except furniture)	26,231	635,708	1,337,612	596,118	1,179,981	2,497,192	13,208	732,829
Furniture and fixtures	6,112	322,334	824,061	282,780	683,915	1,377,908	5,158	189,382
Paper and allied products	4,103	1,259,833	1,289,672	358,901	1,010,972	2,874,958	3,328	270,210
Printing and publishing industries	28,986	22,655	2,710,263	1,318,135	4,268,416	4,268,416	324,371	885,350
Chemicals and allied products	10,073	4,034	632,319	1,910,463	468,458	5,363,620	8,839	1,765,314
Petroleum and coal products	1,387	388	212,003	739,346	169,610	556,365	2,015,307	1,297
Rubber products	\$75	366	259,092	783,464	214,525	614,762	1,302,863	585
Leather and leather products	5,058	3,486	873,155	875,596	346,529	1,525,563	3,505	327,159
Stone, clay, and glass products	11,650	10,523	462,072	1,210,768	405,755	984,884	2,306,450	6,678
Primary metal industries	5,363	2,883	1,157,124	3,594,548	1,010,055	2,976,507	5,765,434	2,168,899
Fabricated metal products	16,734	12,348	971,461	2,832,855	822,514	2,188,581	4,921,476	9,532
Machinery (except electrical)	17,906	13,149	1,545,323	4,804,563	1,244,135	3,592,771	7,812,455	8,860
Electrical machinery	3,973	1,727	801,339	2,271,039	639,147	1,617,401	3,894,115	1,979
Transportation equipment	3,711	2,634	1,181,680	3,719,583	987,442	2,939,815	5,869,196	247,960
Instruments and related products	2,659	1,661	231,987	666,347	181,939	467,755	1,080,336	544,533
Miscellaneous manufactures	14,131	11,849	464,430	1,205,508	397,579	920,508	2,090,188	1,772,573
							1,292	333,409
							8,084	629,984

¹ Includes all full-time and part-time production and related workers, force-account construction workers, clerical and routine office workers, administrative, supervisory, sales, technical, and all other personnel on the day rolls of manufacturing establishments. Excludes employees of central administrative offices operated by concerns having 2 or more manufacturing establishments. Wages and salaries represent the gross earnings of employees including commissions, nonproduction bonuses, vacation and sick leave pay, and compensation in kind, and prior to such deductions as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds.

² Value of products less cost of materials, supplies, fuel, electricity, and contract work.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

No. 893.—MANUFACTURES—GENERAL STATISTICS, BY INDUSTRY: 1947 and 1939

[Figures for 1939 adjusted for comparability with 1947. See general note, p. 737]

INDUSTRY	1947					Number of production workers (average for the year), 1939	
	Number of establishments	All employees ¹		Production workers	Value added by manufacture (\$1,000) ²		
		Number (average for the year)	Salaries and wages, total (\$1,000)	Number (average for the year)	Wages, total (\$1,000)		
Food and kindred products							
Meat products	39,933	1,441,847	3,789,387	1,090,478	2,572,190	9,024,912	
Pork	3,974	274,441	781,940	220,732	584,560	1,280,692	
Beef	2,153	208,369	622,770	167,072	498,743	976,995	
Lamb	1,264	44,379	122,742	34,473	86,570	235,537	
Poultry dressing, wholesale	557	21,693	36,428	19,187	29,253	68,160	
Dairy products	5,423	92,693	225,312	60,074	155,841	595,168	
Creamery butter	1,633	20,564	44,373	15,242	31,883	107,248	
Natural cheese	1,711	12,320	27,597	10,535	23,024	65,257	
Concentrated milk	428	16,635	42,870	13,982	34,838	148,771	
Ice cream and ices	1,521	35,807	92,000	23,196	52,222	228,040	
Special dairy products	130	7,367	18,472	6,119	13,874	47,843	
Canning, preserving, and freezing	3,826	201,627	418,660	181,004	339,224	916,621	
Canned sea food	254	20,153	37,207	18,929	31,755	96,807	
Cured fish	127	2,431	5,111	2,143	3,763	9,948	
Canning and preserving, exc. fish	2,265	135,974	288,443	121,016	234,880	609,939	
Dehydrated fruits and vegetables	146	3,976	8,145	3,602	6,834	18,155	
Pickles and sauces	743	21,730	48,221	18,584	36,153	122,395	
Frozen foods	291	17,363	31,542	15,770	25,833	59,377	
Grain-mill products	4,206	113,217	311,736	86,003	216,229	1,001,692	
Flour and meal	1,243	30,458	118,940	30,722	85,680	410,468	
Prepared animal feeds	2,689	55,347	143,301	40,206	93,579	394,230	
Cereal preparations	64	11,276	30,089	9,496	25,160	130,188	
Rice cleaning and polishing	88	4,072	9,999	3,267	6,700	43,432	
Blended and prepared flour	122	3,004	8,807	2,312	5,110	23,368	
Bakery products	7,123	270,308	705,202	187,581	429,487	1,365,809	
Bread and other bakery products	6,707	233,310	655,070	150,055	351,126	1,100,836	
Biscuit, crackers, and pretzels	326	46,058	169,223	37,326	78,361	204,073	
Sugar	181	35,423	91,291	30,749	75,520	233,869	
Raw cane sugar	82	4,635	8,550	4,022	6,597	17,700	
Cane-sugar refining	25	17,876	47,172	15,093	38,974	98,112	
Beet sugar	74	13,412	35,569	11,634	29,058	118,048	
Confectionery and related products	1,754	91,710	214,558	78,063	155,666	587,065	
Confectionery products	1,036	75,165	167,886	64,883	123,046	413,852	
Chocolate and cocoa products	31	9,605	27,480	7,708	19,174	98,276	
Chewing gum	37	6,940	10,102	5,472	13,446	74,937	
Beverages	6,755	202,574	598,654	138,515	375,921	1,850,914	
Bottled soft drinks	5,618	79,397	194,305	41,214	83,291	420,711	
Malt liquors	446	82,534	292,405	63,668	210,223	808,946	
Malt	58	2,524	0,550	2,069	6,896	53,885	
Wines and brandy	418	7,697	21,898	5,824	13,081	95,015	
Distilled liquors, except brandy	226	30,422	80,498	25,740	61,825	472,357	
Miscellaneous food preparations	6,691	150,794	382,025	107,697	239,727	1,193,082	
Leavening compounds	48	3,066	8,944	2,364	6,804	46,494	
Shortening and cooking oils	100	8,003	24,550	5,931	16,298	182,146	
Oleomargarine	27	2,567	8,337	1,806	5,270	43,760	
Corn products	55	12,324	41,115	10,158	32,688	127,143	
Flavorings	606	11,726	37,149	7,242	17,720	168,333	
Vinegar and cider	118	987	2,094	828	1,570	3,503	
Manufactured ice	3,432	46,492	103,038	29,048	63,026	226,584	
Macaroni and spaghetti	226	8,043	18,763	6,628	13,134	42,049	
Liquid, frozen, and dried eggs	154	9,800	16,570	8,700	13,284	32,209	
Food preparations, n. e. c.	1,925	47,816	121,405	34,992	69,915	350,871	
Tobacco manufactures	1,086	111,782	205,838	103,289	175,318	641,356	
Cigarettes	28	27,674	63,204	25,553	54,986	308,417	
Cigars	822	47,068	76,344	44,512	68,402	143,145	
Chewing and smoking tobacco	73	11,139	22,070	9,725	17,616	57,571	
Tobacco stemming and redrying	103	25,901	43,614	23,499	34,314	72,223	

For footnotes, see p. 758.

MANUFACTURES BY INDUSTRY

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No. 893.—MANUFACTURES—GENERAL STATISTICS, BY INDUSTRY: 1947 AND 1939—Continued

INDUSTRY	1947					Number of production workers (average for the year), 1939	
	Number of establish- ments	All employees ¹		Production workers			
		Number (average for the year)	Salaries and wages, total (\$1,000)	Number (average for the year)	Wages, total (\$1,000)		
Textile mill products							
Woolen and worsted manufactures	8,185	1,233,431	2,836,166	1,147,194	2,449,312	5,340,876	
Scouring and combing plants	828	180,054	457,055	166,947	304,655	803,592	
Yarn mills, wool, except carpet	74	8,726	26,475	7,912	21,202	54,166	
Yarn mills, cotton system	200	33,178	75,380	31,463	66,443	127,808	
Woolen and worsted fabrics	496	132,348	338,928	122,432	293,962	589,534	
Finishing wool textiles	59	5,802	16,272	5,140	13,048	22,084	
Yarn and thread mills, except wool	668	123,590	241,717	117,356	215,171	447,110	
Yarn throwing mills	122	14,866	28,401	13,800	24,323	45,970	
Thread mills	89	14,652	33,240	13,126	26,080	67,372	
Yarn mills, silk system	404	92,280	176,152	88,339	160,767	326,839	
Yarn mills, cotton system	43	1,801	3,924	1,891	3,151	6,929	
Cotton and rayon broad woven fabrics	1,100	455,009	900,604	433,534	904,862	2,050,384	
Cotton broad woven fabrics	602	357,361	704,532	342,360	699,871	1,502,336	
Rayon and related broad woven fabrics	507	97,648	232,072	91,174	204,991	488,048	
Narrow fabric mills	479	27,662	63,861	24,917	51,604	108,201	
Knitting mills	3,126	230,527	492,718	212,962	414,036	854,506	
Full-fashioned hosiery mills	738	70,034	178,062	65,148	150,320	310,360	
Seamless hosiery mills	617	64,808	105,026	61,343	91,858	163,805	
Knit outerwear mills	1,201	34,700	80,988	30,596	50,876	145,743	
Knit underwear mills	172	40,579	80,520	37,546	67,990	134,399	
Knit glove mills	46	5,212	9,222	4,065	8,203	14,730	
Knit-fabric mills	308	14,158	36,087	12,902	28,051	72,272	
Knitting mills, n. e. c.	44	976	2,213	872	1,738	4,278	
Finishing textiles, except wool	641	77,985	218,938	69,035	176,094	359,270	
Carpets and rugs	296	57,211	157,917	50,883	131,340	331,314	
Wool carpets, rugs, and carpet yarn	95	40,006	111,558	35,500	92,656	217,046	
Carpets and rugs, n. e. c.	182	7,055	14,378	6,444	11,556	30,986	
Hard-surface floor coverings	19	10,000	31,981	8,879	27,128	83,282	
Hats (except cloth and millinery)	271	21,428	55,159	18,864	43,362	92,040	
Fur-felt hats and hat bodies	138	13,034	36,433	11,495	28,554	61,474	
Wool-felt hats and hat bodies	49	4,467	9,304	3,907	7,564	13,938	
Straw hats	40	2,438	5,387	2,087	4,113	8,610	
Hatters' fur	46	1,489	3,945	1,845	3,131	8,018	
Miscellaneous textile goods	777	50,056	152,202	52,606	118,188	204,360	
Felt goods, n. e. c.	46	4,737	14,177	4,167	11,109	24,881	
Lace goods	90	8,580	21,346	7,856	17,745	44,872	
Paddings and upholstery filling	138	8,243	21,296	7,378	17,018	44,444	
Processed textile waste	179	5,805	12,804	5,149	9,822	22,612	
Coated fabrics, except rubberized	110	8,698	27,598	6,948	19,219	51,209	
Jute (exc. felt), and linen goods	35	5,290	12,140	4,815	9,942	21,318	
Cordage and twine	148	15,950	36,228	14,122	28,490	71,909	
Textile goods, n. e. c.	25	2,653	6,525	2,261	4,843	13,034	
Apparel and related products	30,960	1,081,844	2,527,499	972,897	2,015,220	4,443,373	
Men's and boys' suits and coats	1,069	150,360	404,709	136,136	387,972	674,243	
Men's and boys' suits and coats	1,816	146,768	396,244	132,868	331,151	658,358	
Suit and coat findings	153	3,601	8,555	3,270	6,821	15,885	
Men's and boys' furnishings	4,026	253,436	456,321	234,476	374,850	803,011	
Men's dress shirts and nightwear	1,065	94,308	163,945	88,172	137,653	292,714	
Men's and boys' underwear	103	7,269	11,330	6,929	9,847	20,348	
Men's and boys' neckwear	413	10,744	25,367	9,246	18,485	50,708	
Men's and boys' cloth hats and caps	313	5,541	12,379	5,063	10,456	20,685	
Hat and cap materials	70	1,111	3,002	943	2,100	5,620	
Separate trousers	976	48,300	93,639	44,939	77,370	163,731	
Work shirts	85	12,061	16,609	11,169	18,858	33,212	
Men's and boys' clothing, n. e. c.	1,001	74,102	130,050	68,015	105,082	216,803	

For footnotes, see p. 758.

No. 893.—MANUFACTURES—GENERAL STATISTICS, BY INDUSTRY: 1947 AND 1939—Continued

INDUSTRY	Number of establish- ments	1947				Number of pro- duction workers (average for the year), 1939	
		All employees ¹		Production workers			
		Number (average for the year)	Salaries and wages, total (\$1,000)	Number (average for the year)	Wages, total (\$1,000)		
Apparel, etc.—Con.							
Women's and misses' outerwear	10,085	313,402	846,340	270,029	671,342	1,427,891	
Blouses and waists	1,361	32,757	67,473	20,046	54,166	123,040	
Dresses, unit price	4,202	133,294	370,864	118,276	294,847	609,570	
Dresses, dozen price	917	48,692	90,494	43,867	68,658	153,052	
Women's suits and coats	2,477	74,306	261,425	65,397	211,245	438,145	
Women's skirts	403	8,312	21,270	7,434	16,841	38,484	
Women's neckwear and scarfs	166	2,754	6,963	2,181	3,829	16,850	
Women's outerwear, n. o. c.	469	13,287	27,861	11,928	21,756	48,144	
Women's and children's undergar- ments	2,051	94,558	197,898	83,895	145,208	387,074	
Women's and children's under- wear	1,516	57,306	114,543	51,907	86,181	227,236	
Corsets and allied garments	535	37,252	83,355	31,898	59,027	160,738	
Millinery	932	20,803	59,480	18,076	46,812	100,723	
Children's outerwear	1,687	48,136	101,162	43,358	79,351	178,265	
Children's dresses	664	22,435	43,416	20,347	33,975	70,460	
Children's coats	506	12,427	33,229	10,990	25,809	58,365	
Children's outerwear, n. o. c.	517	13,274	24,517	12,021	19,477	43,431	
Fur goods	2,220	16,190	68,571	13,745	57,636	122,821	
Misc. apparel and accessories	1,727	57,229	119,510	50,972	91,548	215,010	
Fabric and combination dress gloves	130	5,136	8,378	4,760	6,998	13,256	
Fabric and combination work gloves	144	10,981	17,979	10,421	15,963	35,005	
Suspenders and garters	64	1,685	3,641	1,408	2,417	6,774	
Robes and dressing gowns	376	10,884	23,353	9,803	17,630	42,563	
Waterproof outer garments	247	8,283	19,561	7,339	14,991	31,975	
Leather and sheep-lined clothing	126	4,335	10,678	3,816	8,041	18,798	
Belts	306	9,162	22,016	7,573	15,889	38,037	
Handkerchiefs	159	4,583	9,054	4,078	6,303	20,680	
Apparel, n. o. c.	85	2,180	4,859	1,765	3,316	7,922	
Misc. fabricated textiles	6,254	127,631	273,400	113,210	210,501	532,526	
Curtains and draperies	397	7,982	17,081	6,928	11,702	34,909	
Housefurnishings, n.e.c.	1,233	40,220	78,790	36,384	63,053	156,420	
Textile bags	233	13,884	28,363	12,159	21,946	96,320	
Canvas products	902	10,560	24,667	8,639	17,429	41,424	
Tucking, pleating, and hemstitch- ing	531	5,929	12,421	5,532	11,035	21,339	
Trimmings and art goods	787	15,007	33,924	13,120	25,547	65,092	
Schiffli-machined embroideries	546	5,678	15,054	5,080	11,681	31,733	
Embroideries, except Schiffli-ma- chine	787	9,836	20,234	9,308	17,627	34,521	
Fabricated textile products, n.e.c.	838	18,526	42,866	16,060	31,381	80,768	
Lumber and products (except furniture)	26,231	635,708	1,337,612	596,118	1,179,981	2,497,192	
Lumber and timber basic products	19,685	406,815	797,151	388,665	728,045	1,560,476	
Sawmills and planing mills, general	10,223	382,902	753,878	366,119	601,004	1,491,932	
Veneer mills	156	10,461	20,441	6,722	17,248	36,858	
Copperage stock mills	250	12,291	20,263	11,739	17,984	27,191	
Excelsior mills	56	1,161	2,579	1,085	2,319	4,495	
Millwork and related products	2,681	94,275	255,366	83,214	207,733	442,746	
Millwork plants	2,312	57,599	156,073	50,288	125,014	256,399	
Plywood plants	162	26,499	71,026	24,448	61,977	146,087	
Prefabricated wood products	207	10,177	28,267	8,478	20,742	40,260	
Wooden containers	1,516	69,104	139,553	64,727	121,257	233,453	
Fruit and vegetable baskets	141	9,105	13,398	8,781	12,003	19,330	
Rattan and willow ware, n.e.c.	53	1,073	2,101	983	1,776	3,573	
Cigar boxes	42	1,875	3,135	1,747	2,650	4,655	
Wooden boxes (except cigar boxes)	1,025	47,828	98,833	44,606	85,757	174,545	
Copperage	255	9,223	22,086	8,610	18,981	31,350	

For footnotes, see p. 768.

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No. 893.—MANUFACTURES—GENERAL STATISTICS, BY INDUSTRY: 1947 AND 1939—Continued

INDUSTRY	1947					Number of production workers (average for the year), 1939	
	Number of establishments	All employees ¹		Production workers			
		Number (average for the year)	Salaries and wages, total (\$1,000)	Number (average for the year)	Wages, total (\$1,000)		
Lumber, etc.—Con.							
Miscellaneous wood products	2,349	65,514	145,542	59,512	122,346	260,517	
Wood preserving	242	16,247	37,142	14,773	32,020	92,041	
Lasts and related products	50	1,859	5,348	1,699	4,159	8,687	
Mirror and picture frames	246	3,811	10,255	3,293	7,742	15,508	
Wood products, n. e. c.	1,811	43,497	92,797	39,748	78,425	144,038	
Furniture and fixtures	7,687	322,384	824,061	282,780	653,915	1,377,908	
Household furniture	4,880	228,946	559,025	204,020	450,772	933,467	
Wood house furniture, except upholstered	2,251	132,709	300,371	120,661	254,505	402,738	
Household furniture upholstered	1,391	44,755	114,361	39,786	92,908	162,430	
Reed and rattan furniture	29	771	1,919	636	1,521	3,697	
Metal house furniture, except upholstered	309	19,485	51,634	16,654	39,309	94,511	
Mattresses and bedsprings	879	30,344	82,102	25,469	60,824	146,050	
Household furniture, n. e. c.	21	882	2,138	773	1,555	4,041	
Office furniture	218	21,202	59,834	17,984	47,128	107,711	
Wood office furniture	115	6,601	17,211	5,897	14,152	26,830	
Metal office furniture	103	14,691	42,623	12,087	32,976	80,872	
Public and professional furniture	195	14,410	41,151	11,016	30,500	65,098	
Public building furniture	118	8,855	24,710	7,402	18,716	37,632	
Professional furniture	77	5,555	16,441	4,514	11,784	27,466	
Partitions and fixtures	1,134	27,678	88,632	23,783	69,953	136,843	
Screens, shades, and blinds	1,058	25,973	64,237	21,541	46,606	116,396	
Window and door screens	284	9,510	25,205	7,766	17,894	44,416	
Window shades	126	6,760	18,668	5,495	13,204	34,844	
Venetian blinds	648	9,703	20,364	8,280	15,448	37,136	
Miscellaneous furniture and fixtures	202	4,085	11,182	3,536	8,956	18,393	
Restaurant furniture	173	8,370	9,181	2,880	7,273	16,201	
Furniture and fixtures, n. e. c.	29	715	2,021	656	1,683	3,192	
Paper and allied products	4,103	449,883	1,280,672	388,901	1,010,972	2,874,958	
Pulp, paper, and paperboard	891	198,370	609,270	174,096	509,023	1,466,046	
Pulp mills	226	50,200	148,125	45,412	127,452	416,938	
Paper and board mills	665	148,080	461,145	128,084	381,571	1,050,108	
Paper coating and glazing	182	18,133	56,832	15,194	43,190	126,840	
Envelopes	164	13,797	30,101	11,543	27,656	68,263	
Paper bags	103	22,265	53,860	19,558	42,318	116,265	
Paperboard containers and boxes	1,652	119,131	316,136	102,861	236,020	670,127	
Paperboard boxes	1,522	109,776	292,948	94,625	217,154	633,269	
Fiber cans, tubes, drums, etc.	130	9,355	23,188	8,236	18,866	36,858	
Pulp goods and misc. paper products	1,021	78,137	205,383	65,649	152,766	424,427	
Die-cut paper and board	205	8,488	23,200	7,032	17,039	46,955	
Wallpaper	58	5,462	16,287	4,771	12,222	32,732	
Pulp goods, pressed and molded	19	1,748	4,910	1,482	3,870	9,672	
Converted paper products, n. e. c.	739	62,439	160,086	52,364	110,634	335,068	
Printing and publishing industries	28,986	715,450	2,277,263	438,135	1,318,285	4,269,416	
Newspapers	8,339	234,375	743,854	118,116	372,752	1,398,724	
Periodicals	2,166	68,823	235,508	19,340	64,314	664,632	
Books	804	50,900	143,114	17,372	49,844	320,502	
Books: publishing and printing	648	39,942	104,278	8,002	20,142	262,903	
Book printing	156	10,058	38,886	9,280	20,702	57,650	
Miscellaneous publishing	611	12,036	35,200	3,430	8,475	72,151	
Commercial printing	11,932	163,415	598,702	155,987	453,516	977,686	
Lithographing	1,413	52,240	192,178	41,247	126,872	313,462	
Greeting cards	162	18,053	43,898	12,650	23,000	81,051	

For footnotes, see p. 758.

No. 893.—MANUFACTURES—GENERAL STATISTICS, BY INDUSTRY: 1947 AND 1939—Continued

INDUSTRY	1947					Number of production workers (average for the year), 1939	
	Number of establish- ments	All employees ¹		Production workers			
		Number (average for the year)	Salaries and wages, total (\$1,000)	Number (average for the year)	Wages, total, (\$1,000)		
Printing and publishing industries—Continued.							
Bookbinding and related industries	1,342	42,561	107,400	36,437	84,632	177,144	
Bookbinding	680	22,227	57,541	20,037	48,857	90,250	
Blankbook making and paper ruling	305	8,768	21,028	7,039	14,654	36,022	
Loose-leaf binders and devices	131	8,133	20,946	6,445	14,914	36,797	
Miscellaneous bookbinding work	220	3,433	7,051	2,016	6,207	13,406	
Printing trades service industries	2,217	43,047	177,343	33,550	133,980	264,004	
Typesetting	794	11,475	44,906	9,301	35,409	66,842	
Engraving and plate printing	416	7,688	20,998	6,403	16,959	33,004	
Photoengraving	770	10,711	80,003	12,234	57,962	116,131	
Electrotyping and stereotyping	237	7,173	31,430	5,552	23,650	47,937	
Chemicals and allied products	10,073	632,319	1,910,463	466,458	1,242,628	5,365,201	
Industrial inorganic chemicals	412	65,347	204,113	50,208	146,960	454,009	
Alkalies and chlorine	32	19,853	63,822	15,017	45,494	113,808	
Inorganic chemicals, n. e. c.	380	45,494	140,291	35,186	101,466	340,831	
Industrial organic chemicals	563	206,205	648,018	157,905	458,663	1,551,381	
Cyclic (coal-tar) crudes	49	1,072	5,490	1,633	4,527	17,071	
Plastics materials	126	20,337	63,410	22,212	64,306	200,341	
Synthetic rubber	20	7,663	25,774	5,721	18,381	97,350	
Synthetic fibers	38	71,882	199,910	57,857	150,380	447,877	
Explosives	76	10,426	32,313	8,932	26,051	74,706	
Organic chemicals, n. e. c.	258	85,015	291,721	61,550	105,018	714,030	
Drugs and medicines	1,355	81,803	236,912	54,725	133,324	748,570	
Biological products	85	3,154	8,831	2,244	5,119	19,941	
Botanical products	15	709	2,042	506	1,245	9,009	
Medicinal chemicals	02	12,388	40,178	9,414	28,032	110,516	
Pharmaceutical preparations	1,163	65,552	185,861	42,561	98,928	609,104	
Soap and related products	1,302	44,982	149,753	29,720	82,042	606,079	
Soap and glycerin	249	27,660	93,638	19,304	57,619	480,721	
Cleaning and polishing preparations						13,624	
Sulfonated oils and assistants	1,038	15,352	48,200	9,080	20,084	135,120	
105	1,950	7,906	1,245	3,439	3,439	757	
Paints and allied products	1,456	67,807	224,840	45,822	124,936	573,237	
Paints and varnishes	1,291	53,412	180,052	34,603	94,155	469,584	
Inorganic color pigments	94	13,140	39,747	10,310	28,731	94,658	
Whiting and fillers	71	1,255	4,141	819	2,050	8,005	
Gum and wood chemicals	118	8,466	20,552	7,382	10,347	62,965	
Hardwood distillation	27	1,872	4,140	1,618	3,313	7,490	
Softwood distillation	32	4,574	11,815	4,071	9,655	46,064	
Gum naval stores (steam distilled)	31	638	1,385	512	947	2,034	
Natural tanning and dyeing materials	28	1,382	3,212	1,181	2,432	6,777	
Fertilizers	704	31,933	71,607	26,574	52,758	186,601	
Fertilizers	187	20,371	48,000	17,373	37,309	120,856	
Fertilizers (mixing only)	617	11,562	23,607	9,201	15,449	50,745	
Vegetable and animal oils	1,194	43,431	117,307	35,887	86,054	482,476	
Cottonseed oil mills	315	14,309	31,410	12,136	22,500	104,603	
Linsseed oil mills	17	1,877	4,536	1,349	3,628	12,243	
Soybean oil mills	133	6,460	18,773	5,076	13,489	105,291	
Vegetable oil mills, n. e. c.	84	5,036	13,356	4,202	9,873	77,509	
Marine animal oils	59	1,947	5,046	1,792	4,341	15,033	
Grease and tallow	556	12,472	38,969	10,066	28,722	118,830	
Fatty acids	16	1,335	4,433	1,037	3,055	17,151	
Animal oils, n. e. c.	14	206	775	139	386	1,916	

For footnotes, see p. 758.

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No. 893.—MANUFACTURES—GENERAL STATISTICS, BY INDUSTRY: 1947 AND 1939—Continued

INDUSTRY	1947					Number of production workers (average for the year), 1939	
	Number of establish-ments	All employees ¹		Production workers			
		Number (average for the year)	Salaries and wages, total (\$1,000)	Number (average for the year)	Wages, total (\$1,000)		
Chemicals, etc.—Con.							
Miscellaneous chemical products	2,879	82,275	236,761	58,231	141,544	699,193	
Printing ink	230	6,021	20,496	4,154	11,890	51,949	
Essential oils	42	1,151	3,787	896	2,510	14,477	
Toilet preparations	718	26,023	65,580	18,186	36,697	226,872	
Glue and gelatin	72	5,372	17,133	4,317	12,472	45,346	
Carbon black	59	3,184	10,017	2,834	8,456	44,962	
Compressed and liquefied gases	371	8,983	25,241	6,139	16,996	66,833	
Insecticides and fungicides	106	4,579	13,452	3,216	7,907	3,039	
Salt	38	4,809	12,762	4,056	9,826	30,121	
Chemical products, n. e. c.	1,174	22,163	68,293	14,433	34,700	193,486	
Petroleum and coal products	1,387	212,008	739,345	169,610	556,365	2,015,307	
Petroleum refining	437	145,806	556,781	113,847	396,236	1,494,474	
Coke and byproducts	167	38,938	119,996	34,416	101,012	278,230	
Beehive coke ovens	78	3,100	10,251	2,935	9,597	21,661	
Byproduct coke ovens	89	35,838	109,745	31,481	91,415	256,569	
Paving and roofing materials	437	19,263	58,048	15,779	44,001	155,665	
Paving mixtures and blocks	203	2,684	8,268	1,960	5,486	22,803	
Roofing felts and coatings	174	16,579	49,780	13,819	38,515	132,852	
Misc. petroleum and coal products	346	7,996	25,520	5,568	15,116	86,948	
Fuel briquets and packaged fuel	99	1,204	3,467	1,042	2,986	9,003	
Lubricants, n. e. c.	233	6,271	20,043	4,081	11,022	69,435	
Petroleum and coal prod., n. e. c.	14	521	1,410	435	1,108	8,420	
Rubber products	875	259,092	783,464	214,533	614,762	1,302,863	
Tires and inner tubes	57	115,657	390,841	93,916	311,276	650,165	
Rubber footwear	26	28,125	72,666	23,952	58,462	121,040	
Reclaimed rubber	15	2,070	6,849	1,855	5,826	9,604	
Rubber industries, n. e. c.	777	113,240	313,108	94,810	239,108	522,054	
Leather and leather products	5,308	383,175	873,566	348,529	725,143	1,532,803	
Leather tanning and finishing	561	53,205	156,540	48,627	130,586	403,783	
Industrial leather belting	183	5,032	13,441	4,015	9,667	28,375	
Footwear cut stock	606	22,077	47,793	19,706	38,468	87,301	
Footwear (except rubber)	1,500	240,315	516,870	220,654	428,894	785,542	
Footwear, except rubber	1,288	229,303	494,319	210,034	420,510	745,005	
House slippers	212	11,012	22,560	10,020	18,384	39,548	
Leather gloves and mittens	341	11,544	20,710	10,464	17,040	31,911	
Leather dress gloves	252	8,968	15,844	8,151	13,141	24,042	
Leather work gloves	89	2,576	4,866	2,313	3,899	7,889	
Luggage	592	16,066	41,293	13,904	31,141	68,078	
Handbags and small leather goods	680	25,907	57,011	23,246	44,122	66,076	
Handbags and purses	784	20,301	45,400	18,404	35,902	76,586	
Small leather goods	246	5,000	11,602	4,842	8,130	10,490	
Miscellaneous leather goods	545	9,029	19,899	7,013	15,225	31,736	
Saddlery, harness, and whips	140	2,861	6,204	2,501	5,021	9,437	
Leather goods, n. e. c.	405	6,108	13,605	5,412	10,204	22,299	
Stone, clay, and glass products	11,650	462,072	1,210,768	405,755	994,884	2,306,480	
Flat glass	84	27,241	84,067	24,325	73,252	173,764	
Pressed and blown glassware	213	89,802	230,287	79,417	193,954	421,518	
Glass containers	87	47,132	126,503	41,943	107,101	252,069	
Pressed and blown glassware, n. e. c.	126	42,170	103,784	37,474	86,853	169,449	
Products of purchased glass	1,054	22,357	56,644	19,298	43,739	118,107	
Cement, hydraulic	155	35,662	98,626	30,639	79,861	247,936	
Structural clay products	1,110	69,273	169,179	62,689	144,040	280,382	
Brick and hollow tile	674	29,617	69,399	27,002	59,876	110,867	
Floor and wall tile	37	6,828	16,335	6,250	13,774	31,238	
Sewer pipe	69	9,105	22,421	8,310	19,552	38,302	
Clay refractories	169	17,978	47,074	15,950	38,684	76,054	
Structural clay products, n. e. c.	161	5,745	13,950	5,177	12,154	23,871	

For footnotes, see p. 758.

No. 893.—MANUFACTURES—GENERAL STATISTICS, BY INDUSTRY: 1947 AND 1939—Continued

INDUSTRY	1947					Number of pro- duction workers (average for the year), 1939	
	Num- ber of estab- lish- ments	All employees. ¹		Production workers			
		Number (average for the year)	Salaries and wages, total (\$1,000)	Number (average for the year)	Wages, total (\$1,000)		
Stone, clay, etc.—Continued							
Pottery and related products	742	58,006	146,962	53,376	126,677	224,792	
Vitreous plumbing fixtures	33	7,831	24,615	6,996	21,187	45,677	
Vitreous-china food utensils	27	11,100	26,849	10,326	23,530	35,228	
Earthenware food utensils	76	16,747	42,091	15,742	37,175	54,887	
Porcelain electrical supplies	50	11,547	30,463	10,447	26,454	52,632	
China decorating for the trade	65	1,048	2,471	875	1,079	5,143	
Pottery products, n. e. c.	491	9,733	20,473	8,090	17,652	31,075	
Concrete and plaster products	6,494	70,176	169,559	61,572	140,032	246,761	
Concrete products	6,168	46,821	106,484	41,537	88,471	202,789	
Gypsum products	73	7,472	21,384	6,543	17,911	47,879	
Lime	172	7,009	18,702	6,120	15,518	39,253	
Mineral wool	91	8,874	22,924	7,363	18,134	36,840	
Cat-stone and stone products	640	9,880	26,922	8,312	20,605	45,940	
Misc. nonmetallic mineral products	1,208	80,175	229,522	66,127	172,724	447,280	
Abrasive products	253	20,754	66,158	15,894	45,031	126,689	
Asbestos products	111	21,403	60,119	18,140	47,429	112,571	
Gaskets and asbestos insulations	191	12,060	36,047	10,743	27,088	45,303	
Graphite; ground or blended	12	853	2,799	818	1,025	4,946	
Minerals; ground or treated	206	7,055	21,328	6,729	16,798	51,088	
Sand-lime products	28	303	740	250	591	1,186	
Nonclay refractories	63	10,273	27,783	8,951	22,963	58,022	
Statuary and art goods	272	2,025	4,268	1,820	3,534	4,642	
Nonmetallic mineral products, n. e. c.	74	3,589	10,274	3,003	7,715	20,145	
Primary metal industries	5,369	1,157,124	3,594,548	1,010,055	2,976,507	5,765,434	
Blast furnaces and steel mills	320	547,364	1,785,111	478,900	1,454,985	2,659,250	
Blast furnaces	86	36,937	112,018	32,697	93,598	328,060	
Steel works and rolling mills	216	500,799	1,588,808	438,088	1,337,938	2,275,097	
Electrometallurgical products	19	9,628	29,285	8,175	23,449	55,493	
Iron and steel foundries	1,936	207,306	793,485	239,272	672,116	1,121,522	
Gray-iron foundries	1,654	173,776	512,177	157,361	441,657	732,047	
Malleable-iron foundries	78	29,862	90,811	26,659	76,780	121,061	
Steel foundries	204	63,088	190,497	55,252	153,709	267,214	
Primary nonferrous metals	88	42,804	127,026	37,306	107,291	325,643	
Primary copper	27	14,629	44,790	13,065	38,907	134,658	
Primary lead	16	4,603	14,082	4,022	11,610	35,902	
Primary zinc	20	12,424	35,478	11,088	30,476	77,048	
Primary aluminum	11	8,919	26,308	7,336	20,930	65,282	
Primary nonferrous metals, n. e. c.	14	2,168	6,280	1,885	5,309	12,753	
Secondary nonferrous metals	322	18,402	56,576	14,750	39,046	119,667	
Nonferrous metal rolling and drawing	162	88,824	264,117	74,706	209,657	503,363	
Copper rolling and drawing	78	53,867	166,078	45,924	133,969	302,592	
Aluminum rolling and drawing	29	27,385	73,665	22,788	57,544	163,637	
Nonferrous metal rolling, n. e. c.	55	7,592	24,376	6,086	18,144	50,074	
Nonferrous foundries	1,724	65,342	198,988	67,469	103,706	295,834	
Misc. primary metal industries	811	127,082	419,245	107,412	329,706	740,155	
Iron and steel forgings	250	36,724	128,198	32,384	105,776	197,111	
Wire drawing	134	55,079	175,682	45,644	136,797	314,788	
Welded and heavy-riveted pipe	50	13,144	43,115	11,306	34,348	89,614	
Primary metal industries, n. e. c.	377	22,135	72,250	18,078	52,785	138,642	
Fabricated metal products	16,734	971,461	2,832,635	822,514	2,188,581	4,921,476	
Tin cans and other tinware	217	46,890	127,338	40,890	105,689	231,933	
Cutlery, hand tools, and hardware	1,866	154,168	432,726	151,604	339,163	728,426	
Cutlery	195	20,248	54,142	17,579	42,530	104,833	
Edge tools	238	8,828	24,081	7,632	19,486	40,472	
Hand tools, n. e. c.	679	35,608	103,191	30,138	70,061	174,540	
Files	37	4,440	11,213	4,084	9,714	19,149	
Hand saws and saw blades	89	8,441	25,600	7,880	20,672	42,975	
Hardware, n. e. c.	728	76,537	213,899	64,791	167,600	346,457	

For footnotes, see p. 758.

MANUFACTURES BY INDUSTRY

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No. 893.—MANUFACTURES—GENERAL STATISTICS, BY INDUSTRY: 1947 AND 1939—Continued

INDUSTRY	1947					Number of production workers (average for the year), 1939	
	Number of establishments	All employees ¹		Production workers			
		Number (average for the year)	Salaries and wages, total (\$1,000)	Number (average for the year)	Wages, total (\$1,000)		
Fabricated metal products—Continued							
Heating and plumbing equipment	1,276	150,882	439,102	126,725	339,029	789,524	
Metal plumbing fixtures and fittings	277	34,089	96,371	30,107	80,144	155,944	
Oil burners	151	6,318	19,889	4,046	12,700	44,388	
Heating and cooking apparatus, n. e. c.	848	110,475	322,842	91,972	246,125	589,192	
Structural metal products—Structural and ornamental products	4,507	212,370	661,000	172,690	486,737	1,143,553	
Metal doors, sash, and trim	320	21,079	66,038	17,350	49,238	117,642	
Boiler shop products	812	68,079	213,364	55,937	157,464	368,764	
Sheet-metal work	1,708	42,643	132,663	35,116	98,930	226,446	
Metal stamping and coating	4,437	182,983	521,331	159,926	414,874	801,173	
Vitreous-enamelled products	49	12,240	28,070	11,061	22,917	45,116	
Metal stampings	1,981	132,011	388,038	113,076	304,120	642,483	
Enameling and lacquering	261	4,025	10,188	3,653	8,653	16,038	
Galvanizing	125	3,056	8,636	2,711	6,548	15,296	
Engraving on metal	219	3,428	10,054	2,929	8,176	16,252	
Plating and polishing	1,802	28,223	76,345	25,596	64,460	125,388	
Lighting fixtures	1,206	47,596	132,858	30,883	97,351	247,619	
Fabricated wire products	977	60,647	171,294	52,643	136,195	282,147	
Nails and spikes	68	3,805	9,876	3,278	7,738	15,721	
Wirework, n. e. c.	909	56,842	161,418	49,265	128,457	260,426	
Misc. fabricated metal products	2,248	115,016	347,087	98,253	269,543	637,081	
Metal barrels, drums, and pails	70	10,915	31,331	9,329	24,018	64,110	
Safes and vaults	26	3,754	10,117	3,004	7,437	19,434	
Steel springs	81	7,760	24,938	6,747	20,233	45,876	
Bolts, nuts, washers, and rivets	364	49,235	151,514	40,908	115,700	285,451	
Screw-machine products	1,207	28,492	86,850	24,740	68,040	143,853	
Collapsible tubes	19	3,866	9,415	3,475	7,205	16,942	
Metal foil	43	4,261	11,732	3,673	9,262	21,439	
Fabricated metal products, n. e. c.	438	7,633	21,190	6,377	15,789	39,067	
Machinery (except electrical)	17,906	1,545,323	4,804,563	1,244,135	3,592,771	7,812,455	
Engines and turbines	151	93,064	208,789	71,820	218,538	408,099	
Steam engines and turbines	17	21,640	71,972	15,375	49,584	80,947	
Internal-combustion engines	134	71,424	226,817	65,451	168,054	327,152	
Tractors and farm machinery	1,102	171,435	404,025	180,629	381,574	753,762	
Tractors	94	77,317	227,767	62,926	177,966	332,062	
Farm machinery (exc. tractors)	1,008	94,118	266,858	76,703	203,608	421,700	
Construction and mining machinery	747	113,871	355,307	88,005	255,047	641,307	
Construction and mining machinery	517	84,694	263,835	66,196	180,064	470,132	
Oil-field machinery and tools	230	20,177	91,532	22,709	65,083	171,265	
Metalworking machinery	4,203	214,543	728,840	172,982	541,586	1,181,182	
Machine tools	316	70,657	235,038	54,892	166,206	347,965	
Metalworking machinery, n. e. c.	428	54,988	182,068	43,568	132,810	302,842	
Cutting tools, jigs, fixtures, etc.	3,549	88,898	310,834	74,822	242,570	480,375	
Special-industry machinery, n. e. c.	4,106	215,967	685,776	173,502	512,363	1,005,558	
Food-products machinery	622	36,830	113,500	28,826	82,062	191,214	
Textile machinery	489	53,583	158,446	45,393	126,142	256,436	
Woodworking machinery	294	15,642	48,707	12,623	35,332	86,360	
Paper-industries machinery	149	17,088	57,749	13,398	41,523	81,358	
Printing-trades machinery	326	24,752	84,333	19,584	62,616	131,625	
Special-industry machinery, n. e. c.	2,226	68,063	223,055	53,768	164,088	348,565	

For footnotes, see p. 758.

No. 893.—MANUFACTURES—GENERAL STATISTICS, BY INDUSTRY: 1947 AND 1939—Continued

INDUSTRY	1947					Number of pro- duction workers (average for the year), 1939	
	Num- ber of estab- lish- ments	All employees ¹		Production workers			
		Number (average for the year)	Salaries and wages, total (\$1,000)	Number (average for the year)	Wages, total (\$1,000)		
Machinery, etc.—Continued							
General industrial machinery	2,191	217,402	690,443	184,249	472,472	1,189,220	
Pumps and compressors	447	54,726	187,498	40,362	115,404	282,476	
Elevators and escalators	111	10,227	33,998	7,317	22,880	68,614	
Conveyors	265	24,578	84,084	18,073	58,024	143,616	
Blowers and fans	102	14,794	44,202	11,087	30,329	84,429	
Industrial trucks and tractors	107	13,974	42,038	10,652	29,600	81,780	
Power-transmission equipment	416	54,316	173,596	43,975	124,941	283,647	
Industrial furnaces and ovens	108	6,341	21,719	4,046	11,872	28,990	
Mechanical stokers	46	4,111	12,371	3,118	8,886	22,212	
General industrial machinery, n. e. c.	421	34,835	110,927	25,624	73,466	183,557	
Office and store machines	357	97,778	303,123	84,340	247,458	503,854	
Computing and related machines	53	40,375	154,716	40,407	129,361	231,207	
Typewriters	28	20,604	73,377	23,838	63,709	121,385	
Scales and balances	75	6,526	18,849	4,874	12,847	34,766	
Office and store machines, n. e. c.	201	18,273	66,181	15,161	41,641	110,406	
Service and household machines	1,088	220,286	659,982	180,771	504,203	1,105,798	
Domestic laundry equipment	65	28,403	85,596	23,651	65,596	161,791	
Laundry and dry-cleaning ma- chinery	127	9,003	27,435	6,888	19,015	54,347	
Sewing machines	70	18,305	48,484	12,647	37,926	68,681	
Vacuum cleaners	34	14,880	44,797	12,232	35,266	91,047	
Refrigeration machinery	501	120,290	380,216	108,316	280,175	507,486	
Measuring and dispensing pumps	52	12,083	36,972	8,884	24,174	66,223	
Service and household machines, n. e. c.	170	11,232	36,482	8,153	23,051	66,223	
Miscellaneous machinery parts	3,871	200,977	587,618	167,841	459,530	982,576	
Valves and fittings, exc. plumbers'	453	80,075	288,961	65,955	184,638	302,800	
Fabricated pipe and fittings	212	10,588	33,362	8,273	23,172	58,786	
Ball and roller bearings	94	52,174	163,333	45,976	125,711	250,060	
Machin shops	3,112	58,160	161,972	48,638	126,009	271,870	
Electrical machinery							
Electrical industrial apparatus	3,973	801,359	2,271,029	639,147	1,647,401	3,894,115	
Wiring devices and supplies	1,567	321,352	940,861	253,575	683,452	1,016,398	
Carbon and graphite products	342	38,367	102,322	24,452	77,451	213,500	
Elec. measuring instruments	44	7,818	22,028	6,426	10,504	40,218	
Elec. industrial apparatus, n. e. c.	154	20,926	60,061	16,066	42,326	103,946	
Motors and generators	256	127,012	374,136	101,852	282,252	569,745	
Transformers	144	36,035	107,978	28,160	78,625	195,102	
Electrical control apparatus	324	72,330	215,974	54,589	148,380	305,175	
Electrical welding apparatus	108	7,265	29,151	5,139	17,709	57,310	
Elec. industrial apparatus, n. e. c.	195	10,999	28,612	8,871	20,826	41,306	
Electrical appliances	326	44,371	124,957	37,271	66,654	236,241	
Insulated wire and cable	171	21,282	58,044	18,185	45,375	103,722	
Engines, electrical equipment	110	43,020	125,393	37,978	102,144	196,251	
Electric lamps	62	23,842	57,914	21,550	48,891	120,344	
Communication equipment	1,210	303,391	847,247	284,706	581,158	1,374,117	
Radios and related products	857	178,495	462,207	142,478	324,300	773,233	
Electronic tubes	51	27,703	65,420	22,571	46,704	94,040	
Phonograph records	111	10,045	29,193	8,246	22,840	75,600	
Telephone and telegraph equip- ment	90	76,072	258,567	53,030	167,488	384,417	
Communication equipment, n. e. c.	101	10,070	31,800	7,781	19,826	46,767	
Miscellaneous electrical products	527	43,201	116,623	35,882	89,727	246,942	
Storage batteries	240	16,570	48,370	13,632	38,257	114,246	
Primary batteries (dry and wet)	38	10,261	24,463	9,181	20,656	45,275	
X-ray and therapeutic apparatus	116	7,678	23,217	5,921	15,344	38,035	
Electrical products, n. e. c.	127	8,662	20,504	7,448	15,400	48,786	

For footnotes, see p. 758.

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No. 893.—MANUFACTURES—GENERAL STATISTICS, BY INDUSTRY: 1947 AND 1939—Continued

INDUSTRY	1947					Number of production workers (average for the year), 1939	
	All employees ¹		Production workers		Value added by manufacture (\$1,000) ²		
	Number of establishments	Number (average for the year)	Salaries and wages, total (\$1,000)	Number (average for the year)	Wages, total (\$1,000)		
Transportation equipment							
Motor vehicles and equipment	3,711	1,181,680	3,719,583	987,142	2,939,815	5,869,196	
Motor vehicles and parts	1,904	701,121	2,207,456	599,301	1,797,505	3,819,076	
Truck and bus bodies	903	653,169	2,067,473	558,933	1,057,685	3,577,404	
Truck trailers	603	26,646	78,386	22,876	62,664	127,429	
Automobile trailers	119	12,020	34,833	9,400	25,256	65,257	
Aircraft and parts	219	9,286	26,764	8,332	22,200	48,986	
Aircraft	332	219,611	703,702	162,596	476,297	954,575	
Aircraft engines	58	146,625	402,906	110,332	316,795	605,983	
Aircraft propellers	57	50,263	165,554	35,872	110,177	251,158	
Aircraft equipment, n. e. c.	13	7,423	25,666	4,822	15,230	26,685	
Ships and boats	204	15,310	49,576	11,570	34,098	70,749	
Ship building and repairing	1,110	149,655	467,585	132,033	394,371	586,558	
Boat building and repairing	301	130,200	415,828	114,718	350,880	517,504	
Railroad equipment	809	19,455	51,757	17,315	43,535	69,054	
Locomotives and parts	122	91,116	283,552	75,601	224,867	415,607	
Railroad and street cars	38	30,337	97,608	25,368	78,131	142,477	
Motorcycles and bicycles	86	60,779	185,944	50,323	146,736	273,180	
Transportation equipment, n. e. c.	70	15,615	45,661	13,659	37,732	72,888	
167	4,562	11,627	3,862	8,743	20,542	1,252	
Instruments and related products							
Scientific instruments	2,599	231,997	665,347	181,939	467,785	1,080,336	
Mechanical measuring instruments	216	20,384	61,719	15,028	41,831	83,010	
Optical instruments and lenses	403	53,237	165,589	10,937	108,196	245,144	
Medical instruments and supplies	114	6,468	18,664	5,228	14,025	26,743	
Surgical and medical instruments	980	38,369	107,837	29,617	71,281	184,665	
Surgical appliances and supplies	139	6,080	20,297	5,818	15,281	30,214	
Dental equipment and supplies	628	22,315	61,915	16,667	33,696	111,526	
Ophthalmic goods	213	9,074	25,625	7,132	17,304	42,925	
Photographic equipment	184	22,457	56,811	19,744	46,224	81,530	
Watches and clocks	366	50,911	164,416	36,273	101,765	264,784	
Watches and clocks	276	40,181	110,311	35,117	33,463	194,937	
Watchcases	194	34,623	93,331	30,287	70,372	169,474	
82	5,558	10,980	4,880	13,091	24,086	2,400	
Miscellaneous manufactures							
Jewelry and silverware	14,131	464,420	1,205,508	397,579	920,508	2,090,168	
Jewelry (precious metal)	2,031	54,827	167,433	45,880	126,047	302,859	
Jewelers' findings	1,344	25,566	76,402	20,610	54,222	140,478	
Lapidary work	182	6,056	17,350	5,203	12,389	29,714	
Silverware and plated ware	270	1,699	5,624	1,525	4,532	10,860	
Musical instruments and parts	235	21,508	68,097	18,542	55,804	121,807	
Pianos	260	16,889	46,808	14,814	38,198	71,356	
Organs	27	6,978	20,578	6,170	16,948	31,097	
Piano and organ parts	64	4,546	11,764	4,050	9,832	18,187	
Musical instruments, n. e. c.	169	5,365	14,471	4,585	11,418	22,122	
Toys and sporting goods	2,198	75,493	173,833	67,228	138,350	294,727	
Games and toys, n. e. c.	837	27,140	60,554	24,174	47,403	105,414	
Dolls	377	9,797	21,847	8,886	17,739	37,577	
Children's vehicles	120	8,783	24,735	7,773	19,423	44,204	
Sporting and athletic goods	864	29,773	66,097	26,395	53,785	107,532	
Office supplies	787	31,557	82,074	24,734	55,553	163,100	
Pens and mechanical pencils	184	15,563	40,606	12,527	28,207	89,897	
Lead pencils and crayons	50	6,279	14,726	5,190	10,409	23,033	
Hand stamps and stencils	426	4,684	12,900	3,462	8,729	20,047	
Artists' materials	60	1,380	3,220	907	1,944	5,968	
Carbon paper and inked ribbons	67	3,081	10,022	2,558	6,284	23,615	
Costume jewelry and notions	2,084	65,878	153,661	57,593	118,552	262,685	
Artificial flowers	859	25,371	59,487	22,266	45,979	107,224	
Buttons	445	7,130	13,448	6,569	10,713	23,813	
Needles, pins, and fasteners	453	10,418	21,835	9,417	17,542	34,356	
Plastics products, n. e. c.	277	22,969	58,791	19,341	44,328	97,292	
1,360	60,092	158,024	51,512	123,583	289,594	15,094	

For footnotes, see p. 783.

MANUFACTURES

NO. 893.—MANUFACTURES—GENERAL STATISTICS, BY INDUSTRY: 1947 AND 1939—
Continued

INDUSTRY	1947				Number of production workers (average for the year), 1939		
	Number of establish- ments	All employees ¹		Production workers			
		Number (average for the year)	Salaries and wages, total (\$1,000)	Number (average for the year)	Wages, total, (\$1,000)		
Miscellaneous manufactures—Continued							
Miscellaneous manufactures.....	5,461	159,684	422,775	135,818	319,315	705,737	97,833
Brooms and brushes.....	708	18,551	44,875	15,543	31,162	87,288	11,678
Cork products.....	36	2,485	6,802	2,180	5,427	11,637	2,923
Matches.....	29	7,350	16,422	6,612	13,406	31,302	5,426
Candles.....	54	2,405	5,596	1,933	3,704	8,011	840
Fireworks and pyrotechnics.....	73	3,251	6,694	2,982	5,706	8,626	1,158
Jewelry and instrument cases.....	165	7,383	16,446	6,681	13,280	26,460	4,009
Lamp shades.....	291	4,488	8,473	4,100	7,043	14,668	2,671
Morticians' goods.....	568	22,375	60,002	18,242	42,388	92,395	12,447
Beauty and barber shop equipment.....	70	4,065	11,884	3,185	7,698	17,840	1,770
Furs, dressed and dyed.....	175	6,848	25,540	6,147	21,673	42,954	4,956
Signs and advertising displays.....	1,083	28,879	82,045	24,328	62,026	130,454	17,206
Hair work.....	87	1,170	2,436	1,046	2,040	4,380	322
Umbrellas, parasols, and canes.....	164	3,585	8,380	3,267	6,490	15,421	2,862
Tobacco pipes.....	76	3,140	8,810	2,745	6,302	13,738	2,481
Soda-fountain and bar equipment.....	67	2,730	8,488	2,281	6,524	16,254	1,500
Models and patterns (except paper).....	209	1,808	5,144	1,691	4,325	8,573	1,206
Small arms.....	34	10,453	30,545	9,249	26,876	42,314	5,001
Small arms ammunition.....	8	8,050	22,091	6,748	17,297	40,840	4,264
Miscellaneous products, n. o. c.....	600	20,599	52,122	16,938	36,948	91,712	14,629

¹ Includes all full-time and part-time production and related workers, force-account construction workers, clerical and routine office workers, administrative, supervisory, sales, technical, and all other personnel on the pay rolls of manufacturing establishments. Excludes employees of central administrative offices operated by concerns having 2 or more manufacturing establishments. Wages and salaries represent the gross earnings of employees including commissions, dismissal pay, nonproduction bonuses, vacation and sick leave pay, and compensation in kind, and prior to such deductions as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds.

² Value of products less cost of materials, supplies, fuel, electricity, and contract work.

³ There were no establishments classified in this industry in 1939.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

MANUFACTURES BY INDUSTRY

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No. 894.—MANUFACTURES—VALUE OF PRODUCTS SHIPPED AND COST OF MATERIALS, BY INDUSTRY: 1947

[In thousands of dollars. This table supplements table 893. Cost of materials and value of products were not compiled for industry groups because of the duplication which arises in the combination of individual industries representing successive stages in the production of finished manufactures. For this reason figures are given in this table only for those individual industries in which little or no duplication arises. Value added by manufacture figures shown in table 893 were usually calculated by subtracting cost of materials, etc., from value of products shipped. For a limited number of industries, however, information was requested on quantity of production, as well as on quantity and value of shipments of product items. For most of these industries, value added for the larger establishments (50 or more employees) was calculated by multiplying the quantity of each item produced by a unit value derived from the shipments data, adding these values to obtain a total value of production, and subtracting therefrom the cost of materials. Consequently, for such industries, value added by manufacture in table 893 does not equal the value of products shipped, less cost of materials, etc., as given in this table.]

INDUSTRY	Value of products shipped	Cost of materials, fuel, electricity, and contract work	INDUSTRY	Value of products shipped	Cost of materials, fuel, electricity, and contract work
Meat products:			Woolen and worsted manufacturers:		
Meat packing, wholesale.....	(1)	(1)	Scouring and combing plants.....	203, 255	149, 089
Prepared meats.....	(1)	(1)	Yarn mills, wool, except carpet.....	336, 956	209, 148
Poultry dressing, wholesale.....	481, 920	413, 769	Woolen and worsted fabrics.....	1, 355, 209	755, 675
Dairy products:			Finishing wool textiles.....	28, 880	8, 805
Creamery butter.....	844, 713	737, 465	Yarn and thread mills, except wool:		
Natural cheese.....	457, 935	394, 678	Yarn throwing mills.....	64, 173	18, 203
Concentrated milk.....	737, 607	588, 836	Thread mills.....	154, 209	86, 897
Ice cream and ices.....	611, 755	383, 706	Yarn mills, cotton system.....	769, 403	442, 564
Special dairy products.....	291, 451	243, 608	Yarn mills, silk system.....	12, 494	5, 565
Canning, preserving, and freezing:			Cotton and rayon broad-woven fabrics:		
Canned sea food.....	226, 519	129, 712	Cotton broad-woven fabrics.....	3, 294, 623	1, 732, 287
Cured fish.....	31, 077	21, 129	Rayon and related broad-woven fabrics.....	1, 002, 923	514, 875
Canning and preserving, except fish.....	1, 640, 754	1, 030, 815	Narrow fabric mills	210, 008	102, 250
Dehydrated fruits and veg.....	51, 079	32, 924	Knitting mills:		
Pickles and sauces.....	364, 919	242, 524	Full-fashioned hosiery mills.....	531, 510	212, 150
Frozen foods.....	155, 076	95, 099	Seamless-hosiery mills.....	326, 760	182, 955
Grain-mill products:			Knit outerwear mills.....	330, 893	185, 150
Flour and meal.....	2, 511, 543	2, 101, 075	Knit underwear mills.....	205, 411	163, 421
Prepared animal feeds.....	2, 130, 263	1, 736, 027	Knit glove mills.....	26, 495	11, 879
Cereal preparations.....	284, 606	184, 478	Knit-fabric mills.....	199, 649	128, 264
Rice cleaning and polishing.....	224, 741	181, 300	Knitting mills, n. e. c.....	10, 587	6, 309
Blended and prepared flour.....	75, 523	52, 155	Finishing textiles, except wool:		
Bakery products:			Carpets and rugs:	531, 400	172, 130
Bread and other bakery products.....	2, 416, 891	1, 316, 055	Wool carpets, rugs, and carpet yarn.....	(1)	(1)
Biscuits, crackers, and pretzels.....	540, 222	275, 249	Carpets and rugs, n. e. c.....	55, 559	24, 573
Sugar:			Hard-surface floor coverings.....	174, 736	93, 535
Raw cane sugar.....	60, 135	41, 595	Hats, except cloth and millinery:		
Cane-sugar refining.....	818, 430	728, 744	Fur-felt hats and hat bodies.....	131, 123	69, 649
Beet sugar.....	262, 872	187, 485	Wool-felt hats and hat bodies.....	26, 368	12, 430
Confectionery and related products:			Straw hats.....	18, 250	9, 640
Confectionery products.....	944, 925	631, 073	Hatters' fur.....	28, 823	15, 805
Chocolate and cocoa products.....	349, 007	261, 631	Miscellaneous textile goods:		
Chewing gum.....	148, 286	73, 349	Felt goods, n. e. c.....	59, 764	34, 883
Beverages:			Lace goods.....	68, 063	26, 099
Bottled soft drinks.....	748, 196	327, 485	Paddings and upholstery filling.....	109, 555	65, 111
Malt liquors.....	1, 317, 854	508, 908	Processed textile waste.....	57, 256	34, 643
Malt.....	256, 230	202, 996	Coated fabrics, except rubberized.....	157, 114	105, 905
Wines and brandy.....	(1)	(1)	Jute (except felt) and linengoods.....	48, 853	28, 275
Distilled liquors, except brandy.....	870, 235	397, 878	Cordage and twine.....	167, 048	103, 153
Miscellaneous food preparations:			Textile goods, n. e. c.....	19, 374	6, 340
Leavening compounds.....	72, 295	25, 801	Men's and boys' suits and coats:		
Shortening and cooking oils.....	854, 713	737, 405	Men's and boys' suits and coats.....	1, 411, 575	753, 217
Oleomargarine.....	214, 598	169, 749	Suit and coat findings.....	38, 407	22, 522
Corn products.....	460, 978	332, 835	Men's and boys' furnishings:		
Flavorings.....	313, 573	155, 240	Men's dress shirts and night wear.....	731, 568	428, 854
Vinegar and cider.....	8, 579	5, 076	Men's and boys' underwear.....	49, 763	29, 405
Manufactured ice.....	273, 415	46, 831	Men's and boys' neckwear.....	113, 688	62, 980
Macaroni and spaghetti.....	112, 094	70, 045	Men's and boys' cloth hats and caps.....	87, 635	16, 850
Liquid, frozen, and dried eggs.....	253, 413	221, 204	Hat and cap materials.....	12, 829	6, 709
Food preparations, n. e. c.	312, 466	961, 595			
Tobacco manufactures:					
Cigarettes.....	1, 131, 801	763, 474			
Cigars.....	311, 401	168, 256			
Chewing and smoking tobacco.....	140, 142	82, 571			
Tobacco stemming and redrying.....	957, 807	855, 584			

For footnotes, see p. 763.

No. 894.—MANUFACTURES—VALUE OF PRODUCTS SHIPPED AND COST OF MATERIALS, BY INDUSTRY: 1947—Continued

[In thousands of dollars]

INDUSTRY	Value of products shipped	Cost of materials, fuel, electricity and contract work	INDUSTRY	Value of products shipped	Cost of materials, fuel, electricity and contract work
Men's and boys' furnishings—Continued			Miscellaneous wood products:		
Separate trousers	343,184	179,453	Wood preserving	303,957	211,916
Work shirts	95,378	62,166	Lasts and related products	13,120	4,192
Men's and boys' clothing, n. e. c.	551,037	334,144	Mirror and picture frames	26,555	10,049
Women's and misses' outerwear:			Wood products, n. c. e.	276,875	132,342
Blouses and waists	276,284	152,044	Household furniture:		
Dresses, unit price	1,353,068	743,492	Wood house furniture, except upholstered	905,320	412,588
Dresses, dozen price	350,454	107,402	Household furniture, upholstered	381,053	188,023
Women's suits and coats	1,008,756	565,610	Reed and rattan furniture	6,393	2,090
Women's skirts	85,911	47,427	Metal house furniture, except upholstered	100,215	95,704
Women's neckwear and scarfs	51,061	34,211	Mattresses and bedsprings	381,079	185,029
Women's outerwear, n. c. e.	100,570	52,426	Household furniture, n. e. c.	7,637	3,506
Women's and children's undergarments:			Office furniture:		
Women's and children's underwear	573,484	346,544	Wood office furniture	48,518	21,670
Corsets and allied garments	284,098	123,300	Metal office furniture	128,394	47,622
Machinery	177,495	76,772	Public and professional furniture:		
Children's outerwear:			Public building furniture	65,376	27,744
Children's dresses	174,863	98,304	Professional furniture	44,601	17,135
Children's coats	135,210	76,846	Partitions and fixtures	244,418	107,575
Children's outerwear, n. e. c.	92,746	49,314	Screens, shades, and blinds:		
Fur goods	357,013	234,466	Window and door screens	91,126	40,710
Miscellaneous apparel and accessories:			Window shades	81,472	46,628
Fabric and combination dress gloves	28,388	15,805	Venetian blinds	83,753	46,017
Fabric and combination work gloves	74,605	41,778	Miscellaneous furniture and fixtures:		
Suspenders and garters	14,563	7,780	Restaurant furniture	26,233	11,032
Robes and dressing gowns	103,024	60,461	Furniture and fixtures, n. e. c.	5,382	2,190
Waterproof outer garments	77,020	45,045	Pulp, paper, and paperboard:		
Leather and sheep-lined clothing	40,004	22,106	Pulp mills	939,604	523,866
Belts	68,982	30,945	Paper and board mills	2,812,048	1,761,940
Handkerchiefs	53,106	32,417	Paper coating and glazing	352,337	225,497
Apparel, n. e. c.	13,280	5,304	Envelopes	128,346	60,093
Miscellaneous fabricated textiles:			Paper bags	320,458	201,193
Curtains and draperies	100,640	74,731	Paperboard containers and boxes:		
Housefurnishings, n. e. c.	504,065	347,645	Paperboard boxes	1,475,488	842,109
Textile bags	356,245	289,925	Fiber cans, tubes, drums, etc.	74,812	37,954
Canvys products	90,844	49,420	Pulp goods and miscellaneous paper products:		
Tucking, pleating, and hem-stitching	25,237	3,898	Die-cut paper and board	89,196	42,241
Trimmings and art goods	129,982	64,890	Wallpaper	58,895	26,163
Schiffli-machine embroideries	55,514	23,781	Pulp goods, pressed and molded	16,101	6,519
Embroideries, except Schiffli machine	44,392	9,871	Converted paper products, n. e. c.	784,160	449,092
Fabricated textile products, n. e. c.	193,400	112,098	Newspapers	1,917,302	518,578
Lumber and timber basic products:			Periodicals	1,055,016	420,984
Sawmills and planing mills, general ²	2,526,927	1,034,095	Books: publishing and printing	463,851	200,048
Veneer mills	67,423	30,665	Book printing	86,723	29,004
Cooperage stock mills	55,132	27,941	Miscellaneous publishing	103,343	31,192
Excelsior mills	7,508	3,013	Commercial printing	1,521,655	543,909
Millwork and related products:			Lithographing	457,634	174,172
Millwork plants	526,494	270,095	Greeting cards	123,856	42,805
Plywood plants	264,453	118,366	Bookbinding and related industries:		
Prefabricated wood products	106,880	60,620	Bookbinding	115,963	25,704
Wooden containers:			Blankbook making and paper ruling	60,324	23,702
Fruit and vegetable baskets	30,584	11,254	Loose-leaf binders and devices	58,001	21,204
Rattan and willow ware, n. e. c.	7,243	8,670	Misc. bookbinding work	17,185	3,710
Cigar boxes	8,102	3,447	Printing trades service industries:		
Wooden boxes (except cigar boxes)	305,290	190,745	Typesetting	75,703	8,861
Cooperage	100,379	75,029	Engraving and plate printing	45,811	12,217
			Photoengraving	133,640	17,409
			Electrotyping and stereotyping	58,984	11,047

For footnotes, see p. 703.

MANUFACTURES BY INDUSTRY

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No. 894.—MANUFACTURES—VALUE OF PRODUCTS SHIPPED AND COST OF MATERIALS, BY INDUSTRY: 1947—Continued

[In thousands of dollars]

INDUSTRY	Value of products shipped	Cost of materials, fuel, electricity, and contract work	INDUSTRY	Value of products shipped	Cost of materials, fuel, electricity, and contract work
Industrial inorganic chemicals:			Rubber products:		
Alkalies and chlorine	208,560	94,692	Tires and inner tubes	1,547,040	944,215
Inorganic chemicals, n. e. c.	672,645	331,814	Rubber footwear	108,601	80,607
Industrial organic chemicals:			Reclaimed rubber	17,263	8,049
Cyclic (coal-tar) crudes	60,639	43,568	Rubber industries, n. e. c.	953,453	441,234
Plastics materials	483,461	283,120	Leather and leather products:		
Synthetic rubber	235,200	137,844	Leather tanning and finishing	1,070,085	666,302
Synthetic fibers	705,271	202,615	Industrial leather beiting	57,403	29,028
Explosives	136,356	61,050	Footwear cut stock	204,309	206,560
Organic chemicals, n. e. c.	1,445,210	731,180	Footwear, except rubber	1,716,930	970,985
Drugs and medicines:			House slippers	77,017	37,469
Biological products	38,752	18,811	Leather dress gloves	47,308	22,521
Botanical products	16,395	7,386	Leather work gloves	15,580	7,937
Medicinal chemicals	201,761	91,245	Luggage	134,173	66,095
Pharmaceutical preparations	941,713	332,609	Handbags and purses	161,919	85,333
Soap and related products:			Small leather goods	37,649	18,189
Soap and glycerin	1,085,780	640,424	Saddlery, harness, and whips	20,459	11,022
Cleaning and polishing preparations	201,565	128,854	Leather goods, n. e. c.	41,017	18,718
Sulfonated oils and assistants	61,606	31,208	Flat glass	242,805	68,818
Paints and allied products:			Pressed and blown glassware:		
Paints and varnishes	1,248,841	770,257	Glass containers	422,614	101,901
Inorganic color pigments	269,970	175,312	Pressed and blown glassware, n. e. c.	234,795	68,863
Whiting and fillers	18,791	9,706	Products of purchased glass	109,828	81,300
Gum and wood chemicals:			Cement, hydraulic	408,928	160,992
Hardwood distillation	13,725	6,235	Structural clay products:		
Softwood distillation	72,099	26,935	Brick and hollow tile	144,497	37,040
Gum naval stores (steam distilled)	38,508	36,397	Floor and wall tile	40,966	10,684
Natural tanning and dyeing materials	18,344	11,567	Sewer pipe	47,354	11,702
Fertilizers:			Clay refractories	109,389	38,290
Fertilizers	311,657	197,049	Structural clay prod., n. e. c.	28,814	6,757
Fertilizers (mixing only)	192,848	130,271	Pottery and related products:		
Vegetable and animal oils:			Vitreous plumbing fixtures	68,093	22,416
Cottonseed-oil mills	518,001	413,488	Vitreous-china food utensils	43,196	7,968
Linseed-oil mills	192,173	149,030	Earthenware food utensils	72,054	17,217
Soybean-oil mills	585,709	480,418	Porcelain electrical supplies	71,494	18,652
Vegetable-oil mills, n. e. c.	334,231	256,722	China decorating for the trade	8,377	3,234
Marine animal oils	31,265	16,232	Pottery products, n. e. c.	30,927	8,852
Grease and tallow	304,535	187,521	Concrete and plaster products:		
Fatty acids	68,004	50,943	Concrete products	329,734	126,945
Animal oils, n. e. c.	11,675	9,860	Gypsum products	127,543	59,664
Miscellaneous chemical products:			Lime	72,842	33,589
Printing ink	115,708	63,759	Mineral wool	73,131	36,291
Essential oils	85,739	21,262	Cut-stone and stone products	67,263	21,313
Toilet preparations	371,892	145,020	Miscellaneous nonmetallic mineral products:		
Glue and gelatin	99,262	54,327	Abrasive products	223,386	97,391
Carbon black	73,502	28,345	Asbestos products	204,688	97,660
Compressed and liquefied gases	93,489	26,656	Gaskets and asbestos insulations	118,244	52,919
Insecticides and fungicides	73,068	42,947	Graphite; ground or blended	8,996	4,051
Salt	46,056	20,859	Minerals; ground or treated	81,502	30,444
Chemical products, n. e. c.	393,242	199,806	Sand-lime products	1,730	544
Petroleum refining	6,623,708	5,120,234	Nonclay refractories	90,337	35,774
Coke and byproducts:			Statuary and art goods	9,998	2,607
Beehive coke ovens	70,237	48,576	Nonmetallic mineral products, n. e. c.	40,616	20,471
Byproduct coke ovens	970,634	714,065	Blast furnaces and steel mills:		
Paving and roofing materials:			Blast furnaces	1,713,945	1,385,885
Paving mixtures and blocks	50,187	27,384	Steel works and rolling mills	(1)	(1)
Roofing felts and coatings	338,477	205,625	Electrometallurgical products	150,904	95,411
Miscellaneous petroleum and coal products:			Iron and steel foundries:		
Fuel briquets and packaged fuel	32,802	23,769	Gray-iron foundries	1,172,671	440,024
Lubricants, n. e. c.	175,001	105,566	Malleable-iron foundries	184,400	62,739
Petroleum and coal products, n. e. c.	15,161	6,741	Steel foundries	413,094	145,880

For footnotes, see p. 763.

No. 894.—MANUFACTURES—VALUE OF PRODUCTS SHIPPED AND COST OF MATERIALS,
BY INDUSTRY: 1947—Continued

[In thousands of dollars]

INDUSTRY	Value of products shipped	Cost of materials, fuel, electricity and contract work	INDUSTRY	Value of products shipped	Cost of materials, fuel, electricity and contract work
Primary nonferrous metals:					
Primary copper.....	(1)	(1)	Steam engines and turbines.....	129,021	48,974
Primary lead.....	(1)	(1)	Internal-combustion engines.....	683,357	356,385
Primary zinc.....	190,996	113,928	Tractors.....	890,841	558,779
Primary aluminum.....	161,010	95,748	Farm machinery, exc. tractors.....	888,638	460,938
Primary nonferrous metals, n. e. c.	22,182	9,429	Construction and mining machinery.....	926,712	456,580
Secondary nonferrous metals.....	724,027	604,360	Oil-field machinery and tools.....	288,853	117,588
Nonferrous metal rolling and drawing:			Metalworking machinery:		
Copper rolling and drawing.....	1,063,658	761,066	Machine tools.....	501,882	163,917
Aluminum rolling and drawing.....	404,766	254,060	Metalworking machinery, n. e. c.	520,182	217,340
Nonferrous metal rolling, n. e. c.	193,090	143,016	Cutting tools, jigs, fixtures, etc.	623,827	143,462
Nonferrous foundries.....	562,137	266,303	Special-industry machinery, n. e. c.		
Miscellaneous primary metal industries:			Food-products machinery.....	326,416	135,202
Iron and steel forgings.....	370,007	172,986	Textile machinery.....	403,385	146,949
Wire drawing.....	912,095	597,307	Woodworking machinery.....	145,328	58,066
Welded and heavy-riveted pipe.....	218,875	129,261	Paper-industries machinery.....	151,085	60,727
Primary metal industries, n. e. c.	339,663	201,021	Printing-trades machinery.....	198,703	67,138
Tin cans and other tinware.....	670,860	447,907	Special-industry machinery, n. e. c.		
Cutlery, hand tools, and hardware:			Food-products machinery.....	550,990	202,424
Cutlery.....	142,571	37,738	Textile machinery.....	552,507	270,031
Edge tools.....	62,438	21,966	Elevators and escalators.....	101,815	33,201
Hand tools, n. e. c.	272,543	98,003	Conveyors.....	248,407	104,892
Files.....	24,493	5,344	Blowers and fans.....	140,716	56,287
Hand saws and saw blades.....	70,430	27,455	Industrial trucks and tractors.....	162,603	80,814
Hardware, n. e. c.	578,209	231,812	Power-transmission equipment.....	431,751	148,104
Heating and plumbing equipment:			Industrial furnaces and ovens.....	75,354	36,304
Metal plumbing fixtures.....	291,907	135,903	Mechanical stokers.....	38,884	16,622
Oil burners.....	106,781	62,393	General industrial machinery, n. e. c.	315,352	131,795
Heating and cooking apparatus, n. e. c.	1,134,085	544,893	Office and store machines:		
Structural metal products:			Computing and related machines.....	298,469	62,202
Structural and ornamental products.....	864,435	423,734	Typewriters.....	183,024	32,530
Metal doors, sash, and trim.....	206,088	88,446	Scales and balances.....	54,542	19,776
Boiler shop products.....	704,547	345,783	Office and store machines, n. e. c.	175,800	59,304
Sheet-metal work.....	424,305	197,859	Service and household machines:		
Metal stamping and coating:			Domestic laundry equipment.....	442,297	280,539
Vitreous-enameling products.....	74,332	20,206	Laundry and dry-cleaning machines.....	94,361	40,626
Metal stampings.....	1,164,299	521,816	Sewing machines.....	97,011	28,880
Enameling and lacquering.....	23,868	7,230	Vacuum cleaners.....	160,184	74,904
Galvanizing.....	27,111	11,815	Refrigeration machinery.....	(1)	(1)
Engraving on metal.....	20,543	4,291	Measuring and dispensing pumps.....	125,052	60,430
Plating and polishing.....	176,492	51,104	Service and household machines, n. e. c.	130,894	65,791
Lighting fixtures.....	474,759	227,140	Miscellaneous machinery parts:		
Fabricated wire products:			Valves and fittings, exc. plumbers'.....	637,403	243,603
Nails and spikes.....	30,038	14,317	Fabricated pipe and fittings.....	115,976	57,190
Wirework, n. e. c.	404,625	198,199	Ball and roller bearings.....	365,554	100,523
Miscellaneous fabricated metal products:			Machining shops.....	410,284	138,304
Metal barrels, drums, and pails.....	173,060	108,941	Electrical industrial apparatus:		
Safe and vaults.....	29,216	9,782	Wiring devices and supplies.....	378,099	164,503
Steel springs.....	92,646	46,770	Carbon and graphite products.....	68,745	28,527
Bolts, nuts, washers, and rivets.....	463,762	178,301	Electrical measuring instruments.....	153,380	49,434
Screw-machine products.....	220,542	76,689	Motors and generators.....	1,007,186	437,680
Collapsible tubes.....	26,997	10,055	Transformers.....	356,968	162,085
Metal foil.....	54,638	33,199	Electrical control apparatus.....	628,283	233,108
Fabricated metal products, n. e. c.	73,205	33,238	Electrical welding apparatus.....	103,712	46,402

For footnotes, see p. 763.

MANUFACTURES BY INDUSTRY

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No. 894.—MANUFACTURES—VALUE OF PRODUCTS SHIPPED AND COST OF MATERIALS,
BY INDUSTRY: 1947—Continued

[In thousands of dollars]

INDUSTRY	Value of products shipped	Cost of materials, fuel, electricity and contract work	INDUSTRY	Value of products shipped	Cost of materials, fuel, electricity and contract work
Communication equipment:			Instruments and related products—Continued		
Radios and related products	(1)	(1)	Watchcases	44,494	19,508
Electronic tubes	124,518	35,539	Miscellaneous manufactures:		
Phonograph records	110,184	38,951	Jewelry (precious metal)	248,185	107,707
Telephone and telegraph equipment	680,182	304,765	Jewelers' findings	73,530	43,816
Communication equipment, n. e. c.	69,592	22,825	Lapidary work	30,269	19,409
Miscellaneous electrical products:			Silverware and plated ware	219,131	97,324
Storage batteries	297,654	183,408	Pianos	55,036	24,835
Primary batteries (dry and wet)	85,045	39,770	Organs	12,372	7,182
X-ray and therapeutic apparatus	59,518	20,473	Piano and organ parts	19,865	6,918
Electrical products, n. e. c.	91,166	42,380	Musical instruments, n. e. c.	31,366	9,244
Motor vehicles and equipment:			Games and toys, n. e. c.	181,939	76,526
Motor vehicles and parts	(1)	(1)	Dolls	69,736	32,209
Truck and bus bodies	242,297	114,368	Children's vehicles	85,831	41,627
Truck trailers	150,853	85,696	Sporting and athletic goods	202,462	94,930
Automobile trailers	134,973	85,987	Pens and mechanical pencils	147,368	57,471
Aircraft and parts:			Lead pencils and crayons	45,037	21,404
Aircraft	(1)	(1)	Hand stamps and stencils	28,058	8,011
Aircraft engines	463,403	212,245	Artists' materials	13,298	7,330
Aircraft propellers	(1)	(1)	Carbon paper and inked ribbons	48,636	25,021
Aircraft equipment, n. e. c.	106,547	35,798	Costume jewelry	170,204	63,070
Ships and boats:			Artificial flowers	39,463	15,650
Shipbuilding and repairing	798,944	281,440	Buttons	58,910	24,500
Boat building and repairing	117,991	48,937	Needles, pins, and fasteners	147,221	49,929
Railroad equipment:			Plastics products, n. e. c.	503,049	213,455
Locomotives and parts	354,706	212,229	Brooms and brushes	179,811	92,523
Railroad and street cars	726,847	452,717	Cork products	30,077	18,420
Motorcycles and bicycles	163,670	90,832	Matches	56,657	25,355
Transportation equipment, n. e. c.	46,700	26,248	Candles	17,906	8,995
Instruments and related products:			Fireworks and pyrotechnics	15,219	6,508
Scientific instruments	126,703	43,693	Jewelry and instrument cases	45,112	18,652
Mechanical measuring instruments	376,473	131,329	Lamp shades	27,499	12,881
Optical instruments and lenses	36,081	9,338	Morticians' goods	188,820	96,434
Surgical and medical instruments	45,121	14,007	Beauty and barber-shop equipment	32,144	14,304
Surgeal appliances and supplies	251,396	139,870	Furs, dressed and dyed	52,701	9,747
Dental equipment and supplies	71,102	28,177	Signs and advertising displays	206,356	75,902
Ophthalmic goods	120,314	38,784	Hair work	8,151	3,771
Photographic equipment	440,134	175,360	Umbrellas, parasols, and canes	34,343	18,927
Watches and clocks	341,199	171,725	Tobacco pipes	19,325	5,587
			Soda-fountain and bar equipment	31,504	15,250
			Models and patterns (except paper)	12,101	3,528
			Small arms	57,067	13,596
			Small-arms ammunition	77,660	36,820
			Miscellaneous products, n. e. c.	182,043	91,231

¹ Data not compiled for these items because they contain a substantial amount of duplication arising because certain plants classified in this industry make products which are used as materials by other plants also classified in the industry.

² Includes data for shingle mills.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

No. 895.—MANUFACTURES—SELECTED STATISTICS FOR GEOGRAPHIC DIVISIONS, BY MAJOR INDUSTRY GROUPS: 1947 AND 1939

[Value added figures in thousands of dollars. Figures for 1939 adjusted for comparability with 1947. In cases where figures for a geographic division cannot be given separately without disclosing data for individual companies, they have been combined with the figures for one or more other geographic divisions. In such cases, a (d) appears in each column where a figure has been omitted and the combined figures appear, printed in italics, in the column of the last geographic division included in the combination (reading from left to right). As a result, whenever the figures for a geographic division appear in italics, or the symbol d has been substituted, the major industry groups will not add to the printed "All industries, total" for that geographic division]

INDUSTRY GROUP	UNITED STATES			NEW ENGLAND		
	Value added by manufacture	Production workers (average for the year)		Value added by manufacture	Production workers (average for the year)	
		1947	1947	1939	1947	1939
All industries, total	74,425,825	11,916,188	7,808,205	6,813,800	1,248,325	947,412
Food and kindred products	8,024,912	1,099,478	802,133	364,696	50,639	44,146
Tobacco manufactures	641,356	103,289	87,525	3,957	1,270	1,343
Textile mill products	5,340,376	1,147,194	1,081,710	1,245,659	200,695	200,557
Apparel and related products	4,443,373	972,897	752,829	279,981	66,909	61,078
Lumber and products, (except furniture)	2,497,192	596,118	422,947	115,905	31,300	20,809
Furniture and fixtures	1,377,908	282,780	189,382	74,619	15,609	12,072
Paper and allied products	2,374,968	388,901	270,239	307,013	60,020	46,062
Printing and publishing industries	4,269,416	438,135	324,371	281,179	36,127	28,145
Chemicals and allied products	5,365,201	466,498	275,669	216,910	20,123	12,174
Petroleum and coal products	2,015,307	169,610	107,695	33,818	2,085	2,734
Rubber products	1,302,803	214,533	120,740	222,783	37,502	26,601
Leather and leather products	1,532,803	348,529	327,189	453,639	98,770	106,992
Stone, clay, and glass products	2,306,480	405,755	267,094	108,475	17,508	11,369
Primary metal industries	5,765,434	1,010,055	672,438	288,198	52,024	37,764
Fabricated metal products	4,921,476	822,514	451,087	506,176	91,308	57,477
Machinery (except electrical)	7,812,455	1,244,135	536,082	933,120	164,096	82,766
Electrical machinery	3,894,115	639,147	247,930	451,206	77,387	35,486
Transportation equipment	5,869,196	987,142	544,563	206,974	38,997	21,545
Instruments and related products	1,080,338	181,039	84,867	165,832	31,335	19,123
Miscellaneous manufactures	2,090,168	397,579	241,725	463,700	92,311	57,980

INDUSTRY GROUP	MIDDLE ATLANTIC			EAST NORTH CENTRAL		
	Value added by manufacture	Production workers (average for the year)		Value added by manufacture	Production workers (average for the year)	
		1947	1947	1939	1947	1947
All industries, total	20,790,626	3,245,879	2,234,295	23,473,563	3,565,172	2,180,600
Food and kindred products	1,918,175	214,717	171,502	2,382,765	209,334	206,413
Tobacco manufactures	103,066	25,180	29,102	(d)	(d)	(d)
Textile mill products	1,376,829	264,744	274,062	206,617	40,585	44,680
Apparel and related products	2,695,194	531,551	408,970	505,872	111,348	100,396
Lumber and products (except furniture)	142,924	33,886	22,041	260,060	57,371	46,597
Furniture and fixtures	298,219	55,643	37,169	510,622	97,312	67,078
Paper and allied products	733,898	104,757	74,415	776,060	106,040	78,281
Printing and publishing industries	1,576,551	138,372	104,998	1,160,361	128,180	96,964
Chemicals and allied products	1,655,350	141,507	89,583	1,356,796	102,887	54,744
Petroleum and coal products	516,691	43,054	28,543	431,152	39,607	26,098
Rubber products	210,499	33,855	21,240	588,746	102,087	58,300
Leather and leather products	469,152	100,971	91,807	318,894	67,937	67,490
Stone, clay, and glass products	691,541	122,245	81,584	688,262	115,869	82,277
Primary metal industries	1,804,246	330,947	243,910	2,416,039	418,142	264,670
Fabricated metal products	1,205,294	207,371	117,383	2,159,830	344,637	185,920
Machinery (except electrical)	1,078,754	270,525	115,748	4,013,422	616,615	266,807
Electrical machinery	1,302,157	220,932	93,435	1,634,710	286,529	99,146
Transportation equipment	944,560	103,300	80,644	3,283,208	537,195	349,403
Instruments and related products	589,537	91,005	44,797	(d)	(d)	(d)
Miscellaneous manufactures	818,520	150,417	94,362	499,884	93,779	57,846

d Disclosure; see headnote.

MANUFACTURES BY INDUSTRY

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No. 895.—MANUFACTURES—SELECTED STATISTICS FOR GEOGRAPHIC DIVISIONS, BY MAJOR INDUSTRY GROUPS: 1947 AND 1939—Continued

[Value added figures in thousands of dollars]

INDUSTRY GROUP	WEST NORTH CENTRAL			SOUTH ATLANTIC		
	Value added by manufacture	Production workers (average for the year)		Value added by manufacture	Production workers (average for the year)	
		1947	1939		1947	1939
All industries, total	4,119,409	635,940	376,156	6,942,054	1,344,444	977,596
Food and kindred products	1,204,953	161,701	110,102	696,422	105,465	69,313
Tobacco manufactures	38,071	7,199	9,591	(d)	(d)	(d)
Textile mill products	28,279	7,494	6,504	2,021,825	461,326	395,449
Apparel and related products	187,513	48,287	36,020	327,314	92,480	65,165
Lumber and products (except furniture)	77,023	18,403	14,856	383,376	133,453	90,681
Furniture and fixtures	58,026	12,656	7,414	206,806	51,282	35,008
Paper and allied products	124,804	18,095	11,474	312,438	39,883	23,880
Printing and publishing industries	335,102	38,031	27,055	262,272	29,108	20,908
Chemicals and allied products	328,481	23,086	11,387	779,083	85,185	58,175
Petroleum and coal products	79,401	7,016	5,027	47,900	4,947	3,509
Rubber products	31,032	4,930	1,852	(d)	(d)	(d)
Leather and leather products	128,775	41,827	33,453	99,143	15,947	15,898
Stone, clay, and glass products	148,790	24,492	16,858	261,549	55,015	36,694
Primary metal industries	115,014	23,123	12,495	322,372	54,309	43,183
Fabricated metal products	232,093	37,100	19,630	207,287	38,620	22,510
Machinery (except electrical)	422,902	70,539	26,262	134,846	25,356	10,552
Electrical machinery	191,232	33,134	9,636	94,869	18,537	2,970
Transportation equipment	261,527	37,461	11,564	286,812	54,670	30,657
Instruments and related products	260,886	45,759	17,296	9,585	2,388	1,075
Miscellaneous manufactures	135,818	22,537	10,101	50,401	13,099	9,892

INDUSTRY GROUP	EAST SOUTH CENTRAL			WEST SOUTH CENTRAL		
	Value added by manufacture	Production workers (average for the year)		Value added by manufacture	Production workers (average for the year)	
		1947	1939		1947	1939
All industries, total	2,875,428	558,191	355,096	3,027,709	456,123	258,882
Food and kindred products	510,352	50,564	29,271	593,684	84,000	55,706
Tobacco manufactures	(d)	(d)	(d)	(d)	(d)	(d)
Textile mill products	308,078	92,239	81,901	43,528	11,702	11,250
Apparel and related products	132,096	47,805	31,602	98,203	28,837	16,202
Lumber and products (except furniture)	277,203	92,583	59,068	269,673	85,870	62,415
Furniture and fixtures	50,949	16,269	9,101	43,420	10,271	6,811
Paper and allied products	110,864	14,316	8,029	156,090	19,326	10,064
Printing and publishing industries	102,083	13,555	8,619	154,406	17,115	11,395
Chemicals and allied products	291,960	36,767	23,689	389,299	32,035	13,452
Petroleum and coal products	59,164	4,090	2,790	578,617	46,060	26,065
Rubber products	(d)	(d)	(d)	(d)	(d)	(d)
Leather and leather products	50,406	13,586	7,702	9,343	2,777	669
Stone, clay, and glass products	90,400	18,804	11,865	107,883	18,627	10,169
Primary metal industries	287,693	54,886	36,715	96,122	17,074	5,490
Fabricated metal products	144,419	20,326	17,071	105,190	17,445	7,430
Machinery (except electrical)	94,514	19,534	5,459	175,449	25,210	11,230
Electrical machinery	27,693	5,614	2,801	14,109	1,990	572
Transportation equipment	104,804	19,724	5,064	132,722	27,985	4,409
Instruments and related products	13,319	2,503	876	7,999	2,106	164
Miscellaneous manufactures	16,211	4,721	3,021	21,382	4,633	2,247

d Disclosure; see headnote.

No. 895.—MANUFACTURES—SELECTED STATISTICS FOR GEOGRAPHIC DIVISIONS, BY MAJOR INDUSTRY GROUPS: 1947 AND 1939—Continued

[Value added figures in thousands of dollars]

INDUSTRY GROUP	MOUNTAIN		PACIFIC	
	Value added by manufacture	Production workers (average for the year)	Value added by manufacture	Production workers (average for the year)
			1947	1939
All industries, total	839,202	116,199	67,011	5,544,034
Food and kindred products	245,359	32,182	21,896	1,108,506
Tobacco manufactures	(d)	(d)	(d)	495,682
Textile mill products	1,604	581	486	48,557
Apparel and related products	9,824	2,903	1,643	206,779
Lumber and products (except furniture)	101,928	19,620	12,983	869,202
Furniture and fixtures	5,781	1,303	626	120,487
Paper and allied products	4,758	668	219	253,033
Printing and publishing industries	59,857	7,187	4,767	328,055
Chemicals and allied products	39,798	8,673	1,535	307,515
Petroleum and coal products	52,003	4,224	2,427	217,571
Rubber products	(d)	(d)	(d)	249,809
Leather and leather products	4,811	1,111	389	28,560
Stone, clay, and glass products	31,891	5,530	3,126	177,623
Primary metal industries	175,735	20,523	12,405	269,115
Fabricated metal products	22,460	3,561	1,201	338,727
Machinery (except electrical)	29,966	4,986	1,600	329,482
Electrical machinery	1,864	401	41	116,236
Transportation equipment	4,811	871	178	649,778
Instruments and related products	1,902	318	77	31,836
Miscellaneous manufactures	(d)	(d)	(d)	84,192
				15,482

^a Disclosure; see headnote.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

MANUFACTURES--STATES

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No. 896.—MANUFACTURES—GENERAL STATISTICS, BY STATES: 1947 AND 1939.

[Money figures in thousands of dollars. See general note, p. 737.]

DIVISION AND STATE	1947					Value added by manufacture ²	Number of production workers (average for year)	Value added by manufacture ²			
	All employees ¹		Production workers		Value added by manufacture ¹						
	Number of establishments	Number (average for year)	Salaries and wages, total	Number (average for year)	Wages, total						
United States	240,881	14,294,304	39,689,527	11,916,188	30,242,343	74,425,825	7,808,205	24,487,304			
New England	20,274	1,474,684	3,941,011	1,248,325	3,054,119	6,813,800	947,412	2,414,268			
Maine	1,635	100,181	233,904	90,378	199,204	432,125	74,040	180,588			
New Hampshire	1,124	74,752	177,470	66,448	145,324	306,932	55,434	104,463			
Vermont	830	34,872	83,021	30,239	66,400	149,685	20,498	49,741			
Massachusetts	10,524	718,441	1,923,141	601,603	1,464,047	3,370,094	458,372	1,181,465			
Rhode Island	2,214	146,850	374,582	128,130	297,599	658,420	106,089	237,698			
Connecticut	3,947	399,588	1,148,794	331,827	881,545	1,896,546	232,979	690,323			
Middle Atlantic	75,363	3,953,738	11,412,746	8,245,879	8,513,460	20,790,626	2,234,295	7,308,780			
New York	47,819	1,775,975	5,270,086	1,424,705	3,815,374	9,656,588	949,362	3,313,049			
New Jersey	10,755	738,229	2,214,159	601,748	1,644,207	4,177,080	431,502	1,518,209			
Pennsylvania	16,780	1,430,534	3,918,901	1,219,426	3,053,879	6,946,958	853,371	2,476,862			
East North Central	50,570	4,317,892	13,007,601	3,565,172	9,935,496	23,473,565	2,180,601	7,744,406			
Ohio	12,303	1,194,603	3,560,075	988,446	2,727,481	6,359,006	505,520	2,116,484			
Indiana	5,408	548,346	1,587,518	457,582	1,236,558	2,077,508	275,272	964,746			
Illinois	15,988	1,184,820	3,585,093	954,415	2,627,318	6,680,137	590,995	2,187,240			
Michigan	9,892	973,675	3,090,668	821,721	2,438,027	5,196,338	520,105	1,794,016			
Wisconsin	6,979	416,448	1,184,247	343,008	906,112	2,260,574	198,048	681,970			
West North Central	17,403	785,064	2,063,729	635,940	1,508,105	4,119,409	376,156	1,348,167			
Minnesota	4,567	179,980	501,355	145,153	358,863	1,022,586	78,023	306,840			
Iowa	2,966	140,426	372,330	112,490	275,454	671,100	64,773	243,390			
Missouri	5,725	327,515	827,184	269,711	607,404	1,628,145	178,083	581,804			
North Dakota	362	5,218	12,341	3,823	8,490	29,461	2,605	10,984			
South Dakota	494	10,265	25,796	8,062	19,193	51,398	5,421	19,619			
Nebraska	1,344	47,031	119,923	37,338	87,432	260,658	18,416	68,139			
Kansas	1,940	74,624	204,801	59,363	151,269	461,061	30,935	117,301			
South Atlantic	24,001	1,523,495	3,370,875	1,344,444	2,709,342	6,942,054	977,596	2,216,976			
Delaware	482	34,405	92,183	20,014	70,007	182,088	19,825	54,085			
Maryland	2,824	228,552	612,034	188,638	458,243	1,138,407	140,030	420,539			
Dist. of Columbia	428	17,815	55,872	10,007	27,691	99,067	7,676	43,367			
Virginia	3,644	216,637	483,904	190,035	384,441	1,051,620	132,059	376,250			
West Virginia	1,002	127,353	337,869	108,984	268,469	665,903	74,411	213,284			
North Carolina	5,322	381,480	755,895	350,207	641,966	1,646,673	269,238	544,181			
South Carolina	2,137	188,601	376,964	175,724	330,405	794,312	126,408	169,294			
Georgia	4,754	249,926	484,246	225,807	399,820	1,015,999	155,870	280,032			
Florida	2,808	78,666	168,818	66,028	128,240	349,976	51,149	115,885			
East South Central	10,907	633,765	1,360,231	558,191	1,093,293	2,875,428	355,096	823,101			
Kentucky	2,244	120,504	304,608	110,602	255,989	740,772	62,481	180,485			
Tennessee	3,346	221,454	473,211	192,367	369,920	957,539	131,024	318,378			
Alabama	3,335	206,136	444,047	185,645	372,404	876,933	115,698	245,577			
Mississippi	1,982	76,671	137,705	69,577	114,980	300,184	45,893	72,601			
West South Central	13,181	550,241	1,333,054	456,123	995,239	3,027,709	258,882	815,276			
Arkansas	1,924	65,321	124,167	58,254	101,869	265,144	35,672	66,444			
Louisiana	2,889	132,464	309,871	111,553	229,673	634,074	70,453	198,527			
Oklahoma	1,740	55,403	143,005	44,302	105,277	341,027	27,642	101,782			
Texas	7,128	207,053	755,411	242,014	558,420	1,727,404	125,115	448,523			
Mountain	5,049	141,631	379,900	116,199	293,601	839,202	67,011	269,381			
Montana	652	16,092	43,481	13,606	35,350	92,258	8,802	38,828			
Idaho	604	16,907	45,748	14,602	37,904	109,694	9,854	29,788			
Wyoming	256	5,607	16,696	4,285	12,201	34,957	3,351	15,336			
Colorado	1,602	54,071	144,207	44,158	109,734	286,774	23,388	90,330			
New Mexico	432	7,590	18,222	6,349	14,173	55,486	3,219	8,640			
Arizona	545	14,188	39,333	11,167	29,080	103,988	5,905	31,625			
Utah	772	24,516	63,804	19,973	48,053	128,298	11,467	43,341			
Nevada	126	2,067	8,400	2,064	6,416	27,777	1,026	11,493			
Pacific	24,133	913,787	2,820,370	745,915	2,139,688	5,544,034	411,038	1,546,957			
Washington	3,410	144,824	438,020	123,488	354,596	874,036	82,261	267,716			
Oregon	3,075	105,591	317,827	92,144	265,837	676,017	57,487	155,696			
California	17,648	603,872	2,064,523	530,283	1,510,256	3,994,081	271,290	1,122,545			

¹ Includes all full-time and part-time production and related workers, force-account construction workers, clerical and routine office workers, administrative, supervisory, sales, technical, and all other personnel on pay rolls of manufacturing establishments. Excludes employees of central administrative offices operated by concerns having 2 or more manufacturing establishments. Wages and salaries represent gross earnings of employees including commissions, dismissal pay, nonproduction bonuses, vacation and sick leave pay, and compensation in kind, and prior to such deductions as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds.

² Value of products less cost of materials, supplies, fuel, electricity, and contract work.

* Figures will not add to totals because of rounding.

No. 897.—MANUFACTURES—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS: 1947 AND 1939

(Money figures in thousands of dollars. Data cover standard metropolitan areas having 40,000 or more manufacturing employees in 1947. These areas replace industrial areas shown in earlier censuses. Industrial areas, as defined in previous years, were groups of contiguous counties having large numbers of manufacturing wage earners. Present standard metropolitan areas are integrated economic and social entities which contain not only highly industrialized counties, but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force. The 53 areas presented in this table represent a part of a larger list of standard metropolitan areas recently established by the Federal Government for the use of all Government statistical collection agencies. Standard metropolitan areas are composed of whole counties in all parts of the U. S., with the exception of New England where they are composed of towns. For definition of each area, see 1947 Census of Manufactures preliminary report, series MC 100-3 or final report, Vol. III.)

AREA	1947 (preliminary)					1939	
	Number of establish- ments (average for the year)	All employees ¹		Production workers		Value added by man- ufac- ture ²	Number of pro- duction workers (average for the year)
		Number (average for the year)	Salaries and wages, total	Number (average for the year)	Wages, total		
United States.....	240,881	14,204,304	39,680,527	11,916,188	30,242,343	74,425,825	7,803,205
Standard metropolitan areas, total.....	135,205	8,513,438	25,510,924	6,926,142	18,955,595	46,312,425	4,490,085
Akron.....	482	94,011	284,302	75,289	215,444	460,327	40,114
Albany-Schenectady-Troy.....	590	70,830	202,484	55,023	146,122	322,172	38,217
Allentown-Bethlehem-Easton.....	898	88,539	222,004	77,416	217,446	360,314	50,181
Atlanta.....	872	49,034	112,049	40,505	80,889	237,012	27,692
Baltimore.....	1,785	170,062	482,643	188,810	359,340	899,534	105,780
Birmingham.....	530	53,295	137,845	44,748	106,619	275,326	28,774
Boston.....	5,406	271,273	752,788	215,204	630,965	1,391,157	157,230
Bridgeport.....	585	70,127	203,502	56,014	151,027	342,780	34,348
Buffalo.....	1,694	183,876	557,384	149,768	425,314	1,023,231	90,244
Canton.....	385	55,504	158,849	47,600	128,551	280,241	28,854
Chicago.....	12,284	945,326	2,900,068	756,115	2,175,307	5,529,062	478,126
Cincinnati.....	1,700	135,774	382,936	108,476	274,717	777,201	72,401
Cleveland.....	3,268	208,750	866,849	218,929	645,539	1,546,117	129,358
Columbus (Ohio).....	679	54,877	183,462	42,303	105,350	277,809	25,309
Dayton.....	638	95,347	308,299	79,433	240,266	404,380	40,200
Detroit.....	4,765	555,788	1,846,606	466,922	1,451,803	2,910,650	315,221
Erie.....	308	46,286	134,603	38,076	103,640	224,906	19,216
Fall River-New Bedford.....	588	62,572	142,422	57,379	122,624	244,346	48,127
Flint.....	214	55,159	171,860	47,887	141,033	324,507	33,072
Grand Rapids.....	694	49,241	147,276	41,901	114,900	265,255	23,882
Hartford.....	584	63,700	189,160	52,014	142,678	300,353	31,688
Houston.....	916	58,606	182,282	46,001	131,512	385,549	22,600
Indianapolis.....	944	92,649	279,361	73,168	198,676	484,860	38,705
Kansas City.....	1,345	78,645	218,827	61,608	156,340	469,504	38,085
Los Angeles.....	9,770	358,772	1,118,344	281,800	707,090	2,052,671	127,426
Louisville.....	743	73,791	196,814	60,827	146,607	488,956	35,009
Milwaukee.....	1,963	177,202	535,089	177,202	396,832	973,935	70,473
Minneapolis-St. Paul.....	2,117	118,824	346,278	93,966	239,110	714,565	48,710
New Britain-Bristol.....	209	45,708	132,524	38,507	105,823	205,103	23,504
New Haven.....	577	41,503	115,374	34,395	86,140	188,528	24,528
New Orleans.....	724	45,363	105,210	37,932	78,201	222,995	26,509
New York-Northeastern N. J.	48,304	1,604,184	4,922,996	1,274,357	3,495,956	9,322,683	867,953
Pearl.....	278	42,511	123,726	34,492	94,376	280,070	18,875
Philadelphia.....	7,399	532,492	1,530,946	437,553	1,140,317	2,803,100	320,627
Pittsburgh.....	2,228	337,974	1,023,913	284,017	807,132	1,707,918	191,278
Portland (Oregon).....	1,297	51,643	153,747	42,075	119,893	315,073	25,017
Providence.....	2,363	152,845	302,583	132,506	309,014	689,048	95,411
Reading.....	617	53,423	136,503	46,756	111,376	230,982	40,537
Rochester.....	910	104,997	307,821	80,735	218,838	510,225	50,898
St. Louis.....	2,060	244,490	664,733	200,098	490,936	1,296,471	126,416
San Francisco-Oakland.....	3,672	163,641	526,747	131,161	333,346	1,049,400	76,044
Seattle.....	1,222	54,781	171,256	44,682	129,938	265,458	23,581
South Bend.....	259	44,139	144,419	37,168	117,504	234,908	20,819
Springfield-Holyoke.....	831	51,598	233,624	67,366	177,556	371,902	38,504
Syracuse.....	512	54,563	153,093	43,328	116,729	275,257	26,553
Toledo.....	627	63,599	221,582	50,730	107,461	390,082	30,642
Trenton.....	402	40,422	113,283	34,094	88,389	208,485	25,287
Utica-Rome.....	429	60,503	139,504	43,854	113,258	281,009	32,293
Waterbury.....	295	43,388	126,719	36,386	96,557	206,201	28,537
Wheeling-Steubenville.....	343	51,751	147,020	46,484	125,513	259,509	41,228
Worcester.....	702	53,251	153,583	43,525	114,474	241,917	32,023
York.....	597	41,932	100,709	35,569	76,540	180,388	27,114
Youngstown.....	552	108,654	330,825	94,263	273,021	567,307	63,010

¹ Includes all full-time and part-time production and related workers, fore-account construction workers, clerical and routine office workers, administrative, supervisory, sales, technical, and all other personnel on the pay rolls of manufacturing establishments. Excludes employees of central administrative offices operated by concerns having 2 or more manufacturing establishments. Wages and salaries represent gross earnings of employees including commissions, dismissal pay, nonproduction bonuses, vacation and sick leave pay, and compensation in kind, and prior to such deductions as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds.

² Value of products less cost of materials, supplies, fuel, electricity, and contract work.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

No. 898.—MANUFACTURES—EXPENDITURES FOR PLANT AND EQUIPMENT, BY MAJOR INDUSTRY GROUPS: 1947 AND 1939

In thousands of dollars. Excludes data for certain small establishments which were not asked to report on capital expenditures. It is estimated that establishments covered by this table accounted for over 98 percent of capital expenditures made by all manufacturing establishments. Figures refer to all costs actually incurred during year chargeable to fixed assets accounts of manufacturing establishments and for which depreciation accounts are maintained. Excludes expenditures for following: Maintenance and repair, new manufacturing establishments under construction but not in operation during year, nonmanufacturing establishments owned by manufacturing concerns, and expenditures made by owners of plant and equipment leased to manufacturers.

MAJOR INDUSTRY GROUP	Total expenditures	Expenditures for new plant and equipment						Expenditures for used plant and equipment and land	New machinery and equipment	New construction	Total	Expenditures for new plant and equipment					
		New construction			New machinery and equipment												
		Total	Building	Other	Total	Production machinery and equipment	Other machinery and equipment										
All industries, total	6,627,029	6,003,873	2,122,143	1,501,430	620,713	3,881,750	3,369,408	521,322	623,156	1,248,078	391,285	856,793					
Food and kindred products	888,653	820,847	276,803	250,095	26,705	544,044	395,810	148,234	67,716	194,587	60,750	133,837					
Tobacco manufactures	36,403	35,545	12,919	12,076	833	22,726	21,536	1,190	7,538	7,216	2,982	5,513					
Textile mill products	386,270	367,510	104,706	98,395	11,311	262,804	245,036	16,149	18,760	84,633	16,719	67,194					
Apparel and related products	91,585	82,945	22,114	19,374	2,540	61,831	50,189	11,672	7,640	14,592	3,854	11,088					
Lumber and products, exc. furniture	203,444	172,574	56,048	38,381	17,667	115,526	83,386	32,140	31,870	29,905	11,453	18,052					
Furniture and fixtures	82,146	77,441	26,247	22,846	3,401	51,194	45,218	5,976	4,705	10,897	3,539	7,358					
Paper and allied products	424,141	406,779	111,231	99,384	17,877	289,638	270,151	19,397	17,352	65,587	17,743	47,854					
Printing and publishing industries	226,368	220,143	77,341	44,802	4,802	144,225	123,905	20,320	16,157	92,713	8,553	34,130					
Chemicals and allied products	893,041	810,732	279,739	188,385	530,983	470,527	60,466	82,309	116,638	80,516	86,122	23,441					
Petroleum and coal products	430,521	398,754	317,440	41,570	275,870	82,314	70,887	11,417	39,767	120,672	92,231	23,441					
Rubber products	117,084	109,783	30,393	25,910	4,983	78,980	75,264	3,626	7,301	27,829	3,749	23,780					
Leather and leather products	34,320	31,301	8,064	7,352	25,712	23,227	19,593	3,644	3,019	9,349	2,612	6,737					
Stone, clay, and glass products	296,487	285,016	104,378	78,705	25,673	180,638	161,711	18,977	11,391	51,258	19,056	32,302					
Primary metal industries	660,853	592,177	212,687	86,277	9,622	379,480	351,227	28,263	77,676	136,785	46,079	88,106					
Fabricated metal products	332,335	304,822	92,119	82,487	9,622	212,703	189,037	23,666	27,533	61,488	11,766	49,723					
Machinery (except electrical)	598,280	517,559	167,396	155,519	13,877	350,193	306,832	43,361	80,671	91,557	17,669	73,888					
Electrical machinery	276,078	244,906	64,874	58,600	6,274	179,732	155,800	22,832	31,472	37,060	5,511	31,549					
Transportation equipment	432,680	354,974	99,514	86,986	12,518	255,450	222,126	33,834	76,166	108,250	24,940	83,310					
Instruments and related products	65,721	56,000	15,313	14,573	2,740	40,637	34,923	5,764	16,200	4,970	1,052	11,230					
Miscellaneous manufactures	116,672	106,950	31,515	28,851	2,664	75,445	66,481	8,994	9,712	21,052	4,783	16,269					

Source: Department of Commerce, Bureau of the Census, 1947 Census of Manufactures reports.

MANUFACTURES

No. 899.—MANUFACTURES—EXPENDITURES FOR PLANT AND EQUIPMENT, BY STATES: 1947 AND 1939

[In thousands of dollars. See headnote, table 898.]

DIVISION AND STATE	1947			1939		
	Total expenditures for plant and equipment	Expenditures for new plant and equipment		Expenditures for used plant and equipment and land	Expenditures for new plant and equipment	
		Total	New construction		Total	New construction
United States	6,627,029	6,003,873	2,122,143	3,881,730	623,156	1,248,078
New England	475,422	418,580	115,151	303,429	56,842	101,853
Maine	36,996	35,055	12,708	22,347	1,941	7,439
New Hampshire	26,076	24,010	5,994	18,016	2,066	3,280
Vermont	10,681	9,698	3,051	6,647	983	2,488
Massachusetts	215,920	198,985	52,426	146,559	16,944	46,785
Rhode Island	37,842	34,609	8,117	26,492	3,233	9,972
Connecticut	147,898	116,223	32,855	83,388	81,675	31,839
Middle Atlantic	1,468,235	1,335,235	446,679	888,556	133,000	308,171
New York	556,980	497,443	152,173	345,270	59,537	116,036
New Jersey	329,902	303,987	93,130	210,857	26,005	77,664
Pennsylvania	581,263	533,805	201,376	332,429	47,458	113,872
East North Central	2,052,310	1,869,322	667,526	1,201,796	182,988	421,071
Ohio	537,703	493,254	179,293	318,061	39,449	106,957
Indiana	320,999	202,104	145,724	156,380	18,395	69,515
Illinois	548,580	478,431	168,066	310,365	70,149	103,652
Michigan	463,694	427,746	119,254	308,492	35,048	110,197
Wisconsin	181,334	162,787	55,189	107,598	18,647	30,750
West North Central	366,638	340,462	123,322	217,130	26,176	56,596
Minnesota	89,005	82,800	29,438	53,362	6,205	11,899
Iowa	70,437	64,686	23,041	41,645	5,751	10,040
Missouri	139,499	132,166	50,531	81,635	7,333	22,297
North Dakota	2,378	2,250	859	1,391	128	583
South Dakota	3,640	3,371	1,252	2,119	269	749
Nebraska	20,154	18,402	6,472	11,930	1,752	3,082
Kansas	41,626	36,787	11,739	25,048	4,738	7,346
South Atlantic	736,185	677,651	224,207	453,444	58,534	139,620
Delaware	21,527	21,137	5,594	15,543	390	2,558
Maryland	136,741	123,599	49,106	74,493	13,142	24,583
District of Columbia	5,312	4,502	976	3,526	810	1,320
Virginia	120,137	112,383	33,902	78,481	7,754	20,190
West Virginia	93,476	82,332	27,364	54,968	11,144	23,007
North Carolina	144,388	137,583	42,812	94,771	6,805	30,148
South Carolina	66,579	61,743	20,189	41,554	4,836	10,068
Georgia	90,412	84,324	28,147	56,173	6,092	18,105
Florida	57,613	50,052	16,117	33,035	7,561	8,081
East South Central	274,955	256,002	80,931	175,071	18,953	49,610
Kentucky	84,400	77,135	27,197	49,938	7,364	9,138
Tennessee	89,362	83,792	24,356	59,436	5,570	22,774
Alabama	76,803	72,362	22,752	49,610	4,441	11,977
Mississippi	24,291	22,713	6,626	16,097	1,578	5,721
West South Central	531,571	457,920	205,644	252,276	73,651	74,217
Arkansas	33,992	30,262	11,569	18,693	3,730	4,357
Louisiana	102,437	97,210	32,597	64,613	5,227	6,197
Oklahoma	35,535	25,504	12,282	13,252	10,031	5,551
Texas	359,607	304,944	149,226	155,718	54,663	48,502
Mountain	100,745	95,023	33,296	61,727	5,722	15,592
Montana	7,783	7,446	1,708	5,738	342	3,046
Idaho	12,116	11,447	3,903	7,544	669	1,707
Wyoming	11,504	10,235	8,756	1,479	1,359	784
Colorado	33,379	32,189	8,406	23,783	1,190	6,037
New Mexico	6,181	5,431	1,810	3,621	750	903
Arizona	8,761	8,328	3,131	5,197	433	971
Utah	17,877	16,988	4,171	12,817	889	1,789
Nevada	3,049	2,959	1,411	1,548	90	265
Pacific	620,968	553,678	225,377	328,301	67,290	81,348
Washington	94,447	81,476	28,707	52,760	12,071	12,862
Oregon	72,946	61,669	23,455	38,234	11,277	9,626
California	453,575	410,533	173,235	237,298	43,042	58,860

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

No. 900.—INVENTORIES IN HANDS OF MANUFACTURERS AT BEGINNING AND END OF 1947, BY MAJOR INDUSTRY GROUPS

[In thousands of dollars. Inventory statistics exclude data for industries in printing and publishing groups, small sawmills, and certain small establishments in other industries. It is estimated that for industry groups shown, figures represent 99 percent of all inventories held by them. Figures cover inventories held for account of individual manufacturing establishments and exclude inventories held for account of sales branches, central warehouses, or central administrative offices of manufacturing concerns]

MAJOR INDUSTRY GROUP	INVENTORIES AT BEGINNING OF YEAR			INVENTORIES AT END OF YEAR		
	Total	Finished products ¹	Materials, supplies, and work in process ¹	Total	Finished products ¹	Materials, supplies, and work in process ²
All industries, total	22,432,422	6,159,703	16,272,719	26,129,137	7,808,637	18,320,500
Food and kindred products	3,489,199	1,522,149	1,967,050	4,078,750	1,943,108	2,135,642
Tobacco manufactures	1,033,759	391,569	642,190	1,117,664	465,754	651,910
Textile mill products	1,609,619	380,750	1,260,869	1,788,166	885,472	1,402,604
Apparel and related products	1,087,339	365,489	721,850	1,257,372	449,094	808,278
Lumber and products, exc. furniture	497,580	200,015	297,565	653,637	275,277	378,360
Furniture and fixtures	342,280	61,108	281,172	401,311	83,053	318,258
Paper and allied products	536,913	91,644	445,269	714,223	125,316	588,007
Printing and publishing industries	(3)	(3)	(3)	(3)	(3)	(3)
Chemicals and allied products	1,743,370	505,525	1,237,845	2,082,730	650,037	1,412,693
Petroleum and coal products	730,588	400,203	330,295	888,583	453,606	434,977
Rubber products	873,058	68,427	274,631	413,785	152,967	260,818
Leather and leather products	447,705	102,289	345,416	508,276	120,257	388,019
Stone, clay, and glass products	391,146	137,933	253,213	494,666	184,543	310,123
Primary metal industries	1,719,943	368,501	1,351,442	1,958,469	441,282	1,527,187
Fabricated metal products	1,264,132	233,753	1,020,370	1,500,320	315,639	1,184,081
Machinery (except electrical)	2,833,852	677,702	2,156,060	3,354,237	890,262	2,469,075
Electrical machinery	1,842,433	188,439	1,163,994	1,480,510	291,340	1,198,176
Transportation equipment	2,048,774	242,172	1,806,602	2,377,482	206,994	2,080,488
Instruments and related products	332,098	88,172	208,926	429,047	103,757	325,290
Miscellaneous manufactures	568,634	149,683	418,951	630,908	180,879	460,024

¹ Includes value of goods produced by contract work on materials owned by manufacturers reporting.

² Includes value of fuel and all other inventories.

³ Data not collected.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

No. 901.—CANNED FRUIT AND VEGETABLE PRODUCTS—ANNUAL PRODUCTION:
1939-40 TO 1950-51

[Standard cases of dozen cans (in millions). Data are for pack years and are partly estimated.]

PRODUCT	1939-40	1940-41	1941-42	1942-43	1943-44	1944-45	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51
Fruits, total ¹	50.6	47.0	60.3	58.3	45.4	55.4	51.2	81.3	65.5	64.5	68.9	-----
Apples	2.6	2.1	4.0	3.9	2.0	3.0	1.1	4.0	2.1	1.6	3.9	4.8
Applesauce	2.3	2.0	3.2	3.6	2.2	3.1	1.9	6.2	4.5	3.4	6.1	8.3
Apricots	3.4	2.2	4.3	3.3	1.3	7.8	4.4	10.7	3.3	4.8	2.4	3.7
Berries	1.3	1.3	1.9	1.4	1.0	.5	.4	.8	1.0	1.8	2.0	1.3
Cherries, red pitted	2.4	2.7	1.7	2.6	.6	2.6	1.1	2.4	1.8	2.7	2.6	3.8
Cherries, other	1.0	.6	.9	1.1	.9	.9	1.3	1.8	.6	.8	1.7	.7
Cranberries	1.4	1.3	1.7	.8	1.1	.6	1.8	3.2	2.2	1.3	1.8	2.5
Figs	.3	.5	.8	.8	1.0	.9	.7	1.2	.8	.6	.3	.5
Grapefruit	3.0	2.3	3.2	.6	.6	.4	2.1	4.0	2.3	3.0	2.4	(2)
Mixed fruits	5.3	5.0	5.7	6.2	5.8	6.6	6.5	8.9	10.2	11.0	7.6	8.2
Peaches	12.0	11.3	14.4	16.2	11.6	13.6	14.8	20.0	19.0	17.4	19.1	16.6
Pears	4.6	5.5	6.6	6.2	4.7	4.5	4.7	5.2	5.7	4.0	5.9	6.4
Pineapple ²	8.6	8.8	9.2	9.0	10.2	9.1	7.9	8.4	9.4	10.8	10.8	11.3
Plums and prunes	2.3	1.8	2.5	1.7	2.4	1.8	2.5	4.2	2.3	1.0	2.1	1.0
All other	.1	.1	.2	-----	-----	-----	-----	.3	(2)	(2)	(2)	(2)
Juices, total ⁴	46.6	57.7	63.0	76.0	80.7	96.7	110.6	110.0	102.3	99.7	90.8	-----
Apple	.4	.5	1.6	1.7	1.4	2.7	1.1	4.4	1.4	1.4	3.0	(2)
Apricot, peach, pear	(8)	(8)	(5)	.8	.2	.9	.2	1.5	1.5	1.6	1.5	(2)
Grape	2.5	2.5	2.3	2.0	1.6	2.0	2.5	3.4	3.4	3.5	2.8	(2)
Grapefruit	10.9	16.2	12.9	24.0	26.6	22.0	26.4	17.6	17.5	14.3	12.2	(2)
Lemon and lime	.1	.3	.2	.2	(8)	(8)	.6	.4	.5	.5	.4	(2)
Orange	3.6	4.1	4.8	2.9	8.3	16.8	22.6	10.7	27.3	19.3	19.5	(2)
Orange-grapefruit	1.4	2.5	2.3	3.7	6.0	9.0	14.0	11.0	12.4	10.8	9.4	(2)
Pineapple ³	9.6	12.6	9.8	10.4	9.4	8.9	9.6	9.0	9.0	11.5	12.0	13.7
Prune	.2	.2	.4	1.5	1.9	2.7	4.9	4.0	3.9	4.0	4.4	(2)
Other fruit	.8	.9	1.4	1.1	.2	1.3	3.5	(2)	(2)	(2)	(2)	(2)
Tomato	13.7	15.1	23.4	25.1	22.5	28.4	23.4	20.2	19.5	27.8	23.5	20.2
Other vegetable	3.4	2.8	4.0	2.8	2.6	3.1	4.0	6.3	(2)	(2)	(2)	(2)
Seasonal vegetables, total ⁴	91.2	110.3	143.4	169.5	147.6	134.9	139.3	149.4	122.4	120.2	127.1	-----
Asparagus	3.0	3.6	3.5	4.5	4.2	4.3	4.5	4.6	3.8	3.0	4.4	4.5
Beans, green and wax	8.8	10.1	15.8	25.2	23.8	18.6	17.5	18.3	13.1	15.2	20.6	21.0
Beans, lima	2.7	2.9	4.0	3.0	2.0	1.7	1.6	1.7	2.2	2.5	4.4	3.2
Beets	3.0	4.5	9.0	7.3	7.2	8.7	9.5	7.0	3.4	4.5	7.4	8.2
Carrots	2.0	2.2	2.9	3.0	3.1	3.1	3.6	3.7	1.0	3.1	1.8	1.9
Corn	16.1	16.7	28.9	32.6	20.3	25.4	28.7	31.0	26.1	31.5	29.8	18.2
Greens, leafy	.5	.6	.9	1.4	1.2	1.0	3.0	1.5	1.7	2.5	2.0	2.0
Mixed vegetables	2.2	2.5	2.0	1.8	1.4	2.4	4.0	3.8	3.8	(2)	(2)	(2)
Peas	17.5	26.8	31.9	36.9	30.4	31.7	39.7	40.9	33.1	23.4	23.5	29.1
Pumpkin and squash	3.2	3.2	3.5	2.3	2.1	2.9	1.9	4.6	3.4	1.8	1.1	2.2
Spinach	5.0	5.5	5.5	9.9	7.7	9.0	8.4	8.4	3.9	5.0	6.7	5.6
Tomatoes	27.2	31.7	34.6	41.6	20.7	26.1	16.9	23.9	27.7	24.4	21.6	21.1
Nonseasonal vegetables, total ⁴	94.8	102.3	116.7	72.1	80.5	99.7	126.3	144.7	(2)	(2)	(2)	(2)
Beans, all dry varieties	28.1	30.0	34.5	10.5	15.1	26.5	34.7	35.0	(2)	(2)	(2)	(2)
Hominy	2.5	2.6	2.8	.6	.4	(2)	(2)	4.3	4.5	4.8	(2)	(2)
Sauerkraut	5.7	7.2	6.5	2.4	3.6	4.1	7.7	8.0	4.2	6.5	7.8	(2)
Spaghetti and macaroni	5.5	5.8	6.5	1.4	1.	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Sweet potatoes	.3	1.0	2.0	1.0	1.5	1.6	3.1	5.7	1.7	1.8	3.1	4.3
Soups	29.5	30.0	34.5	27.7	23.0	29.7	39.1	43.0	40.0	42.0	41.0	(2)
All other	4.8	5.4	6.5	4.0	6.5	3.0	7.3	7.0	(2)	(2)	(2)	(2)
Beans, fresh shelled	-----	-----	-----	-----	.5	.4	(2)	(2)	(2)	(2)	(2)	(2)
Beans, soy	-----	-----	-----	-----	.8	.1	(2)	(2)	(2)	(2)	(2)	(2)
Corn-on-cob	.5	.6	.8	.2	-----	-----	(2)	(2)	.7	.6	.7	(2)
Mushrooms	.7	.8	.9	.4	.4	.4	(2)	(2)	.5	.5	.6	1.2
Plum tomatoes	.6	.5	.3	.2	.2	.2	(2)	(2)	.9	1.6	1.5	1.6
White potatoes	-----	-----	-----	-----	1.3	4.3	1.6	1.6	(2)	(2)	(2)	(2)
Miscellaneous	3.0	3.5	4.5	1.9	.8	.3	(2)	(2)	(2)	(2)	(2)	(2)
Tomato products	17.1	18.0	21.6	23.4	29.0	33.5	33.8	45.0	35.7	27.4	23.5	20.0
Catsup and chili sauce	8.8	9.2	10.6	11.0	9.9	12.0	10.1	13.0	16.9	13.8	9.0	11.7
Paste and sauce	3.6	4.4	5.0	5.9	9.1	10.0	11.5	16.2	12.9	9.9	10.4	10.3
Pulp and puree	4.7	5.0	6.0	0.5	10.0	11.5	12.2	15.8	5.9	3.7	4.1	4.0
Olives, ripe	1.3	1.7	1.8	1.1	1.3	1.3	.6	1.0	(2)	(2)	(2)	(2)
Canned baby foods, total ⁷	18.7	22.5	29.2	44.2	56.8	77.5	104.1	120.2	90.0	126.7	122.1	130.2
Desserts	(8)	(8)	(8)	(8)	(2)	3.0	7.5	9.8	10.6	7.2	10.1	8.5
Fruits	(8)	(8)	(8)	(8)	13.8	15.7	26.6	38.9	45.0	34.8	41.6	49.6
Meat compounds	(8)	(8)	(8)	(8)	9.6	12.9	10.1	21.0	36.8	24.7	38.0	36.1
Vegetables	(8)	(8)	(8)	(8)	18.6	25.2	27.3	34.4	27.8	23.3	37.0	27.0

¹ Basis 24 No. 2½ cans.² Hawaiian pack plus receipts from Puerto Rico, except for 1950-51 which represents Hawaiian pack only.³ Basis 24 No. 2 can.⁴ Included with "All other".⁵ Not shown separately to avoid disclosure of individual operations.⁶ Not available.⁷ Included in "other fruit juices."⁸ Calendar year (first) packs; basis dozen cans.

DISTILLED SPIRITS

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No. 902.—ETHYL ALCOHOL AND OTHER DISTILLED SPIRITS, EXCEPT BRANDY AND SPIRITS (FRUIT)—MATERIALS USED IN PRODUCTION, BY KINDS: 1901 TO 1950

YEARLY AVERAGE OR YEAR ENDING JUNE 30	Molas- ses (thou- sand gallons)	GRAIN (THOUSANDS OF POUNDS) ¹				ETHYL SUL- PHATE	PINE- APPLE JUICE	OTHER MATERIALS ³	
		Corn	Malt	Rye	Other ²			Thou- sand gallons	Thou- sand pounds
1901-1905	14,059	1,094,027	197,602	303,038	3,340				
1906-1910	30,630	1,114,277	202,720	280,112	1,893				
1911-1915	71,726	1,183,708	209,194	275,374	5,020				
1916-1920	109,627	955,003	125,429	68,139	5,208			49,457	
1921-1925	144,662	259,134	53,502	5,219	4,854			42,340	89,387
1926-1930	239,279	473,082	29,613	2,722	1,008	1,274		43,546	58,901
1931-1935	167,264	480,276	101,183	245,457	5,252	10,688	5,071	8,802	20,606
1936-1940	183,214	1,398,797	267,247	406,285	3,179	31,530	3,449	12,069	3,195
1941-1945	240,247	1,652,322	562,455	348,848	3,069,170	77,809	2,948	15,085	49,748
1946									
1947									
1948									
1949									
1950									
1911	44,263	1,301,822	226,968	201,056	5,098				
1912	61,605	1,288,952	228,256	313,600	4,760				
1913	64,641	1,335,488	238,168	320,308	6,160				
1914	64,721	1,193,636	220,584	299,152	4,648				
1915	123,301	708,500	131,002	136,606	4,480				
1916	80,977	1,795,920	250,936	174,552	4,592			71,165	
1917	112,498	1,002,488	237,440	128,000	4,536			78,463	
1918	118,028	814,520	64,640	13,944	9,632			68,527	
1919	123,490	217,840	32,088	1,400	4,816			9,801	
1920	113,133	59,248	12,040	2,800	2,912			19,327	
1921	119,053	273,840	51,184	10,528	1,624			31,101	
1922	97,223	173,208	45,096	4,760	56			74,705	
1923	148,711	173,936	46,536	280				32,543	12
1924	155,001	271,432	64,568	5,008	1,120			35,525	155,756
1925	203,270	403,256	69,976	5,432	616			37,824	112,392
1926	267,404	445,088	86,400	728	672			44,508	46,885
1927	211,619	460,448	28,280	392				40,042	49,409
1928	213,630	346,864	25,368	392	604			56,705	79,576
1929	268,045	548,912	20,720	448				53,384	53,038
1930	235,797	558,006	87,296	11,648	1,848	1,274		21,001	65,556
1931	187,790	137,424	36,008	357,560	1,568	10,072	5,768	19,302	30,344
1932	161,205	271,488	28,836	12,208	18,692	11,146	4,235	15,072	20,377
1933	117,039	325,808	31,360	31,684	336	8,943	5,544	6,772	30,205
1934	174,031	580,269	140,848	252,519	2,003	9,568	7,401	1,672	23,797
1935	195,266	1,086,392	269,361	573,413	3,099	13,699	5,317	1,190	28,247
1936									
1937	179,123	1,782,205	372,421	718,789	3,716	24,408	6,790	8,092	678
1938	208,071	2,020,560	387,312	651,457	3,673	25,493	3,598	12,248	953
1939	166,722	1,110,331	206,625	330,086	2,689	26,577	2,007	27	456
1940	163,233	1,012,868	183,411	307,742	3,432	35,389	1,594	26,177	1,254
1941	108,029	1,059,019	186,468	314,371	2,383	45,786	3,266	13,801	12,023
1942									
1943	225,349	1,307,456	231,065	373,997	2,527	53,400	1,831	2,365	18,563
1944	286,174	2,280,469	338,155	384,190	114,800	71,269	1,988	2,589	25,907
1945	183,039	2,707,530	558,854	117,008	2,370,391	78,299	3,237	3,574	37,136
1946	263,889	320,126	727,200	217,398	6,303,230	94,407	4,918	8,680	70,030
1947	242,786	1,000,028	962,002	651,649	6,464,941	91,321	2,766	57,949	97,100
1948									
1949	117,520	1,370,401	537,373	463,822	1,968,362	103,306	2,374	152,899	648,435
1950	73,382	2,051,731	455,336	237,166	148,398	106,457	2,880	222,581	983,782
1951	178,502	1,583,658	344,099	308,989	617,559	109,245	4,909	249,189	274,026
1952	161,700	1,716,278	328,247	375,036	233,767	131,819	2,586	249,208	1,325,985
1953	131,327	1,623,067	240,216	272,288	53,902	132,237	3,331	205,850	72,816

¹ Conversion factor used was 56 pounds per bushel when reported in bushels.

² Wheat, barley, rice, sorghum grain, etc., also mixtures of corn, malt, and rye.

³ Diamalt, sulphite liquors, manioc meal, maguey juice, maple syrup, cider, corn syrup, potatoes, crude alcohols mixtures, cellulose pulp and chemical mixtures, ethylene gas, etc.

^a Average for 4 years.

^b Average for 3 years.

^c 1930 figure.

Source: Treasury Department: 1901 to 1933, Bureau of Industrial Alcohol; Statistics Concerning Intoxicating Liquors. 1934 and subsequent years, Bureau of Internal Revenue; annual and special reports.

No. 903.—DENATURED ALCOHOL:¹ 1910 TO 1950

YEAR ENDING JUNE 30—	Alcohol produced at industrial alcohol plants ²	Denaturing plants operated	Ethyl alcohol used for denaturation ³	DENATURED ALCOHOL PRODUCED ⁴		
				Total	Completely denatured	Specially denatured
	<i>Proof gallons</i>		<i>Proof gallons</i>	<i>Wine gallons</i>	<i>Wine gallons</i>	<i>Wine gallons</i>
1910		12	10,605,871	6,079,027	3,076,925	3,002,103
1915		23	26,411,719	13,980,469	5,386,647	8,590,322
1920	18,933,551	52	45,640,049	28,836,350	13,528,403	16,307,947
1925	166,165,518	91	152,254,039	81,808,273	46,983,970	34,824,303
1930	193,823,717	68	155,000,827	106,776,978	50,063,510	47,713,468
1935	180,645,020	39	165,233,606	97,031,074	38,746,679	58,284,395
1940	243,727,756	40	225,160,792	126,761,830	15,352,033	111,409,797
1944	636,575,216	66	973,439,556	524,113,586	52,331,761	471,781,825
1945	633,431,544	65	971,446,910	527,095,537	33,087,533	494,008,604
1946	320,386,962	50	393,458,500	121,802,110	26,144,437	186,657,073
1947	248,798,639	49	338,029,989	183,744,086	36,305,715	147,348,371
1948	332,282,148	48	330,651,745	184,281,826	34,887,789	149,394,037
1949	351,018,364	47	323,925,930	174,494,703	10,221,492	164,273,211
1950	313,535,129	46	322,836,727	174,673,641	4,414,058	170,259,683

¹ Includes data for Hawaii for all years and data for Puerto Rico beginning with Aug. 1, 1928.² Separate accounts for alcohol produced at industrial alcohol plants required commencing May 1, 1920.³ Through 1940, represents *withdrawals* of all products for denaturation, that is, domestic ethyl alcohol, spirits produced by registered distilleries (redesignated upon receipt at denaturing plants as alcohol), and rum. Beginning 1944, represents all products (except rum) used for denaturation, that is, domestic ethyl alcohol, imported ethyl alcohol, and spirits. Rum is included for 1936 and 1940 because denatured rum is included with specially denatured alcohol for those years.⁴ Prior to 1944 includes denatured rum.⁵ Represents gross production. Net production (gross production minus products used in redistillation) for such years follows: 1944, 590,928,045; 1945, 650,089,874.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

No. 904.—ALCOHOLIC BEVERAGES—PRODUCTION, TAX-PAID WITHDRAWALS, AND STOCKS: YEARS ENDING JUNE 30, 1944 TO 1950

[Includes data for Alaska and Hawaii. See also *Historical Statistics*, series J 172 for production of fermented malt liquor]

CLASS	UNIT	1944	1945	1946	1947	1948	1949	1950
Fermented malt liquor:								
Production	Thous. of bbl. ¹	81,726	86,004	84,078	87,857	91,291	89,736	88,807
Tax-paid withdrawals	do	76,070	79,591	81,287	82,829	86,093	85,809	84,203
Stocks on hand June 30	do	8,802	9,202	8,035	9,565	9,888	9,879	10,982
Distilled spirits, total:								
Production ²	Thous. of tax gal. ³	42,305	128,205	127,148	131,505	244,127	266,542	208,235
Tax-paid withdrawals	do	90,464	142,831	178,131	173,505	147,100	141,767	144,124
Stocks on hand June 30 ²	do	376,278	338,173	420,262	525,828	594,733	677,344	708,562
Whiskey:								
Production	do		41,562	147,465	167,905	120,507	149,595	118,730
Tax-paid withdrawals	do		58,833	63,891	63,227	58,823	53,603	52,675
Stocks on hand June 30	do		348,646	307,088	374,072	404,826	522,201	602,026
Rectified spirits and wines, production, total	Thous. of proof gal. ⁴	67,686	118,803	150,879	148,560	125,733	118,955	107,861
Whiskey, production	do	57,882	101,845	124,727	130,701	114,917	107,782	94,968
Still wines: ⁵								
Production ⁶	Thous. of wine gal. ⁸	264,853	314,083	370,936	515,335	314,328	425,926	297,857
Tax-paid withdrawals	do	84,673	88,792	107,965	102,212	110,114	119,107	133,055
Stocks on hand June 30 ⁶	do	94,313	102,725	102,014	100,211	147,708	162,586	127,000
Sparkling wines: ¹⁰								
Production	Thous. of half pints ¹¹	30,192	31,017	40,569	48,548	20,422	22,836	21,225
Tax-paid withdrawals	do	26,961	25,269	35,721	30,985	20,414	21,665	20,034
Stocks on hand June 30	do	18,715	22,634	24,498	30,491	36,465	34,859	32,387

¹ Barrels of 31 wine gallons.² Excludes ethyl alcohol.³ A tax gallon for spirits of 100 proof or over is equivalent to the proof gallon. For spirits of less than 100 proof the tax gallon is equivalent to the wine gallon.⁴ Excludes high-proof spirits and unfinished spirits produced at registered distilleries for industrial purposes.⁵ Includes ethyl alcohol.⁶ Excludes vermouth and other aperitif wines.⁷ Production represents total amount removed from fermenters, including distilling material (substandard wines produced with excess water or residue materials). In 1950, 104,800,132 gallons of distilling materials were produced.⁸ Standard United States gallon.⁹ Excludes distilled materials.¹⁰ Includes champagne, other sparkling wines, and artificially carbonated wines.¹¹ Tax is payable on each $\frac{1}{2}$ pint or fraction thereof in each bottle or container.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

NO. 905.—DISTILLED SPIRITS, MALT LIQUORS, AND WINES—APPARENT AVERAGE ANNUAL PER CAPITA CONSUMPTION IN THE CONTINENTAL UNITED STATES: 1850 TO 1950

[In gallons, except distilled spirits which is shown in tax gallons]

FISCAL YEAR	DISTILLED SPIRITS			MALT LIQUORS			WINES		
	Total	Domestic	Imported	Total	Domestic	Imported	Total	Domestic	Imported
1850	2.24	2.02	0.22	1.58	1.57	0.01	0.27	0.01	0.26
1860	2.86	2.67	.19	3.22	3.18	.04	.34	.06	.28
1870	2.07	1.89	.18	5.31	5.28	.03	.32	.08	.24
1871-80 ¹	1.39	1.35	.04	6.98	6.90	.08	.47	.31	.16
1881-90 ¹	1.34	1.31	.03	11.37	11.34	.03	.48	.39	.09
1891-98 ¹	1.37	1.35	.02	15.20	15.15	.05	.39	.32	.07
1898-1900 ¹	1.12	1.10	.02	15.58	15.49	.04	.36	.31	.05
1901-05 ¹	1.30	1.36	.03	17.34	17.29	.05	.47	.40	.07
1906-10 ¹	1.43	1.39	.04	19.81	19.73	.08	.62	.53	.09
1911	1.46	1.42	.04	20.69	20.61	.08	.67	.60	.07
1912	1.45	1.41	.04	20.02	19.95	.07	.58	.52	.06
1913	1.51	1.47	.04	20.72	20.64	.08	.56	.49	.07
1914	1.44	1.40	.04	20.69	20.62	.07	.53	.46	.07
1915	1.26	1.23	.03	18.40	18.37	.03	.38	.27	.06
1916	1.37	1.33	.04	17.78	17.76	.02	.47	.42	.05
1917	1.62	1.59	.03	18.17	18.15	.02	.41	.36	.05
1918	.87	.86	.01	14.77	14.76	.01	.49	.46	.03
1919	.79	.79	(2)	8.00	8.00	(2)	.51	.49	.02
1920	.22	.22	(2)	2.61	2.61	(2)	.12	.12	(2)
1921	.32	.32	(2)				.19	.18	.01
1922 ²	.18	.18	(2)				.06	.05	.01
1923 ²	.11	.11	(2)				.13	.13	(2)
1924 ²	.10	.10	(2)				.08	.08	(2)
1925 ²	.09	.09	(2)				.03	.03	(2)
1926 ²	.09	.09	(2)				.05	.05	(2)
1927 ²	.08	.08	(2)				.04	.04	(2)
1928 ²	.09	.09	(2)				.04	.04	(2)
1929 ²	.09	.09	(2)				.09	.09	(2)
1930 ²	.08	.08	(2)				.03	.03	(2)
1931 ²	.07	.07	(2)				.05	.05	(2)
1932 ²	.06	.06	(2)				.04	.04	(2)
1933 ²	.08	.05	(2)	1.56	1.55	.01	.01	.01	(2)
1934 ²	.33	.30	.03	7.90	7.89	.01	.14	.12	.02
1935	.70	.67	.03	10.45	10.44	.01	.30	.28	.02
1936	.81	.73	.08	11.03	11.92	.01	.39	.37	.02
1937	1.03	.90	.13	13.47	13.45	.02	.52	.49	.03
1938	1.00	.89	.11	13.02	13.00	.02	.51	.48	.03
1939	.93	.84	.09	12.41	12.39	.02	.55	.52	.03
1940	1.02	.93	.09	12.58	12.57	.01	.66	.63	.03
1941	1.04	.96	.08	12.42	12.41	.01	.70	.68	.02
1942	1.13	1.06	.07	14.18	14.17	.01	.79	.78	.01
1943	1.11	1.00	.11	15.96	15.93	.03	.84	.83	.01
1944	1.03	.72	.31	17.97	17.92	.05	.73	.66	.07
1945	1.22	1.05	.17	18.86	18.79	.07	.73	.70	.03
1946	1.30	1.27	.12	18.58	18.47	.09	.87	.82	.05
1947	1.28	1.17	.11	18.08	18.02	.06	.77	.74	.03
1948	1.06	.97	.09	18.58	18.56	.02	.79	.77	.02
1949	1.02	.92	.10	18.05	18.03	.02	.85	.83	.02
1950	1.02	.92	.10	17.41	17.39	.02	.98	.91	.02

¹ Average for the period.

² Less than .005.

³ Includes quantities withdrawn for certain manufacturing, compounding, medicinal, and sacramental uses.

Source: Department of Commerce, Office of International Trade; published in World Trade in Commodities: Foreign Trade in Beverages and Beverage Materials. Data prior to 1922 published in the Statistical Abstract, 1921, p. 616.

No. 906.—TOBACCO PRODUCTS—PRODUCTION, BY KIND: 1901 TO 1949

[Compiled from monthly returns of manufacturers. Data relate to products manufactured in continental United States, excluding those manufactured in customs bonded manufacturing warehouses, class 6. There were 150,245,092 large cigars manufactured in these warehouses in 1949. Large cigars are those weighing more than 3 pounds per thousand. See also *Historical Statistics*, series J 174 for data on cigarettes]

CALENDAR YEAR OR YEARLY AVERAGE	TOBACCO AND SNUFF (THOUSANDS OF POUNDS)						CIGARS (THOUSANDS)		CIGARETTES (THOUSANDS)	
	Total	Plug	Twist	Fine cut	Smok- ing ¹	Snuff	Large	Small	Large	Small
1901-1905	346,841	175,081	11,903	138,402	20,556	6,513,095	716,720	7,143	3,227,600	
1906-1910	413,064	167,460	13,524	12,525	192,700	26,845	6,883,272	1,050,501	16,113	6,192,571
1911-1915	437,346	158,529	15,017	10,795	221,865	31,140	7,087,530	1,053,654	15,095	14,802,410
1916-1920	456,584	150,869	14,346	9,758	237,808	34,805	7,364,987	810,327	26,026	41,595,670
1921-1925	409,467	115,445	10,105	6,972	239,151	37,785	6,691,913	557,300	16,704	65,903,991
1926-1930	389,244	90,470	8,374	5,821	235,421	40,189	6,360,650	414,044	10,479	109,361,210
1931-1935	349,785	64,662	5,404	3,600	239,072	36,987	4,048,368	245,412	20,417	121,702,670
1936-1940	344,531	54,402	6,029	4,703	241,561	37,636	5,184,661	164,652	2,956	174,117,510
1941-1945	327,478	56,987	6,228	4,535	217,829	41,019	4,457,472	125,370	23,938	245,475,550
1935	342,728	60,588	5,604	4,683	235,757	36,095	4,685,370	177,822	2,504	139,986,180
1936	347,977	59,165	6,372	5,058	239,349	38,022	5,172,279	180,006	2,458	158,803,958
1937	340,579	58,331	6,774	4,999	233,334	37,141	5,303,369	198,555	3,066	160,969,320
1938	345,369	54,495	5,650	4,572	243,470	37,173	5,014,758	162,990	2,638	171,086,383
1939	343,307	51,283	5,733	4,701	243,640	37,970	5,197,627	166,940	4,369	180,600,824
1940	344,423	48,759	5,605	4,178	248,011	37,872	5,235,271	134,738	2,249	189,371,268
1941	342,427	50,230	5,614	5,059	241,897	39,616	5,610,176	146,711	1,790	217,934,925
1942	330,413	54,300	6,024	5,034	224,002	41,003	5,840,805	133,150	2,503	257,520,803
1943	327,089	58,945	6,287	4,480	214,249	48,179	5,803,627	125,480	6,111	226,173,333
1944	306,956	61,655	6,498	4,092	192,728	41,962	5,108,679	123,340	26,870	323,583,888
1945	330,502	50,704	6,723	3,970	216,271	43,834	5,274,675	98,167	82,416	332,164,070
1946	253,281	51,810	5,773	3,766	152,551	30,361	5,017,700	92,262	2,658	350,088,003
1947	242,283	47,306	5,152	3,793	146,860	30,163	5,487,656	79,690	5,377	369,082,700
1948	244,051	45,346	5,632	3,207	149,687	40,809	5,645,104	89,134	6,411	386,825,746
1949 ²	238,042	41,903	5,586	2,757	147,788	40,908	5,452,994	83,460	707	384,001,003

¹ Includes scrap chewing tobacco.

² Number of factories on Jan. 1, 1950: Tobacco and snuff (excluding 176 "quasi" manufacturers), 300; cigars, 1,821; cigarettes, 61.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

No. 907.—TOBACCO, LEAF—AMOUNTS CONSUMED IN THE MANUFACTURE OF CIGARS, CIGARETTES, CHEWING AND SMOKING TOBACCO, AND SNUFF: 1896 TO 1949

[All figures in thousands of pounds. Figures represent the equivalent in unstemmed leaf tobacco of stemmed leaf or scraps, cuttings, and clippings. In the following table the tobacco used in the manufacture of cigars and cigarettes was converted on the basis of 3 pounds of stemmed leaf or scraps, etc., to 4 pounds of unstemmed beginning 1915 (conversion prior to 1915 was at the ratio of 3 to 5) and of tobacco and snuff beginning 1903. For 1896 to 1902, tobacco used in manufactured tobacco and snuff was shown only under two heads, namely, "leaf" and "scraps." It is probable that stemmed leaf was included with unstemmed tobacco under the head of "leaf" without the one kind being converted to the equivalent in the other. The conversion ratio of 3 to 4 was applied only to "scraps" for these years. Data exclude tobacco used in bonded manufacturing warehouses. See also *Historical Statistics*, series J 171, for annual total consumption]

CALENDAR YEAR OR YEAR- LY AVERAGE	Total	Cigars	Ciga- rettes	Tobacco and snuff	CALENDAR YEAR	Total	Cigars	Ciga- rettes	Tobacco and snuff
1896-1900	359,053	87,851	16,235	254,067	1936	847,367	126,578	453,327	267,402
1901-1905	461,461	124,411	12,444	314,606	1937	872,924	128,653	479,981	264,300
1906-1910	524,193	130,206	22,079	302,908	1938	865,302	118,751	483,840	262,710
1911-1915	578,283	151,890	52,207	374,186	1939	885,299	122,881	509,133	253,485
1916-1920	650,460	155,312	130,320	364,828	1940	922,716	126,835	535,218	260,603
1921-1925	672,077	161,421	108,069	322,588	1941	1,009,085	136,066	626,842	246,178
1926-1930	762,540	149,240	312,533	300,767	1942	1,131,065	140,679	754,550	235,837
1931-1935	740,934	112,296	246,958	282,652	1943	1,228,703	131,896	800,459	236,840
1936-1940	878,722	124,700	492,206	261,726	1944	1,254,541	129,882	920,418	204,241
1941-1945	1,182,014	133,383	821,311	228,221	1945	1,291,176	128,390	944,286	218,400
1932	690,134	104,288	290,029	286,817	1946	1,306,667	137,539	1,000,938	168,100
1933	710,668	104,699	326,063	278,876	1947	1,355,117	136,838	1,055,594	164,185
1934	775,530	111,123	375,383	289,024	1948	1,400,091	139,823	1,099,176	161,002
1935	775,932	113,742	399,458	262,781	1949	1,382,348	125,173	1,090,154	161,020

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

COTTON-SYSTEM SPINDLES

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No. 908.—COTTON-SYSTEM SPINDLES, COTTON CONSUMPTION, AND STOCKS: 1840 TO 1950

[Statistics for 1915 to 1949 relate to 12 months ending July 31 and those for prior years to 12 months ending Aug. 31. For 1946-50, spindles in place include all cotton-system spindles in place regardless of fiber spun. Prior to 1946, "in place" figure represents all spindles in place used exclusively for spinning cotton. Consumption and stocks are expressed in running bales, counting round as half bales, except that all figures, 1840 to 1870, inclusive, and foreign cotton for all years are in equivalent 500-pound bales. See also *Historical Statistics*, series J 179-180 for data on active cotton-system spindles in the U. S. and total cotton consumed including linters.]

YEAR	COTTON-SYSTEM SPINDLES (THOUSANDS)				Active cotton spindle hours (millions)	COTTON CONSUMED, EXCLUDING LINTERS (THOUSANDS OF BALES) ¹				
	Total in place	Active ²				United States	Cotton- growing States	New Eng- land	Other States	
		United States	Cotton- growing States	New Eng- land						
1840	(3)	2,285	181	1,597	508	(3)	237	71	159	
1850	(3)	3,908	265	2,050	775	(3)	576	78	431	
1860	(3)	5,236	324	3,850	1,053	(3)	845	94	567	
1870	(3)	7,132	328	5,498	1,306	(3)	797	69	551	
1880	(3)	10,663	4,561	8,632	1,460	(3)	1,570	189	1,129	
1890	(3)	14,384	1,570	10,934	1,880	(3)	2,518	539	1,502	
1900	(3)	19,472	4,368	13,171	1,933	(3)	8,873	1,523	1,909	
1910	28,929	28,267	10,494	15,735	2,038	(3)	4,622	2,234	1,995	
1920	35,834	35,481	15,231	18,237	1,963	(3)	6,420	3,583	2,397	
1925	37,920	36,082	17,292	16,975	1,765	91,055	6,193	4,220	1,639	
1930	34,025	31,245	18,636	11,351	1,308	87,515	6,106	4,749	1,148	
1935	30,093	26,701	18,212	7,763	726	72,526	5,361	4,306	818	
1940	24,750	23,586	17,641	5,279	666	97,006	7,784	6,647	918	
1942	23,971	23,608	17,800	5,138	670	131,161	11,170	9,526	1,313	
1943	23,401	23,429	17,746	5,043	641	129,700	11,100	9,640	1,156	
1944	23,293	23,019	17,652	4,784	582	118,283	9,943	8,739	950	
1946	23,128	22,675	17,010	4,611	554	111,898	9,568	8,455	891	
1946	23,862	22,777	17,700	4,526	551	105,368	9,163	8,074	854	
1947	23,824	22,519	17,602	4,541	476	114,727	10,025	8,776	908	
1948	23,798	22,675	17,807	4,429	439	119,017	9,354	8,254	887	
1949	23,501	20,134	16,491	3,276	367	98,217	7,795	6,980	644	
1950	22,995	21,790	17,673	3,739	378	109,243	8,851	8,030	664	

YEARLY AVERAGE OR YEAR	CONSUMPTION (THOUSANDS OF BALES)						STOCKS IN CONSUMING ESTAB- LISHMENTS AT END OF YEAR (THOUSANDS OF BALES)		
	Cotton, excluding linters						Cotton, excluding linters ⁵		
	Total	Upland	Sea Island	Amer- ican- Egyptian	Foreign	Linters	Total	Do- mestic	Foreign
1906-1910	6,420	6,4,680	6,4,616	6,64	—	140	7,163	6,731	6,673
1911-1915	5,257	5,051	8,4,976	75	(8)	206	293	822	738
1916-1920	6,388	5,577	6,0,034	71	(8)	282	734	1,452	1,352
1921-1925	5,869	5,577	5,531	9	37	292	599	1,003	911
1926-1930	6,735	6,434	6,419	1	15	301	815	1,160	1,050
1931-1935	5,466	5,325	5,311	1	14	140	720	1,116	1,061
1936-1940	6,638	6,799	6,780	2	18	139	836	7,133	7,060
1941-1945	10,301	10,151	10,105	3	42	149	1,399	10,354	10,233
1941	9,722	9,576	9,545	3	27	146	1,359	11,681	11,441
1942	11,170	10,974	10,922	4	47	196	1,488	9,900	9,765
1943	11,100	10,930	10,874	6	50	170	1,301	9,792	9,704
1944	9,943	9,829	9,782	3	44	114	1,365	10,150	10,041
1945	9,568	9,448	9,404	1	44	120	1,481	10,330	10,215
1946	9,163	8,966	8,946	1	19	197	1,055	6,746	6,593
1947	10,025	9,765	9,755	1	9	260	984	2,310	2,178
1948	9,354	9,109	9,101	2	5	246	1,156	2,800	2,717
1949	7,795	7,634	7,629	1	4	161	1,408	5,031	4,962
1950	8,851	8,609	8,666	1	2	182	1,616	6,496	6,399

¹ For 1945 and earlier years data represent sum of greatest number of cotton spindles reported by each mill as active at any time during year, regardless of length of time operated. Beginning with 1946, active figure includes all cotton-system spindles active last day of year, regardless of type of fiber spun. On July 20, 1950, there were 20,518,000 spindles active on cotton, 1,040,000 on synthetics, 232,000 on other fibers and blends, and 1,205,000 idle.

² Includes linters for 1840 to 1908. Figures for all years include foreign and domestic cotton.

³ Not available.

⁴ Cotton mills only.

⁵ Includes stocks held in public storage and at compresses beginning 1938.

⁶ Includes linters for 1906 to 1908. ⁷ Average, 1908 and 1910.

⁸ "Upland" includes "American-Egyptian" beginning 1912 (first year produced).

Source: Department of Commerce, Bureau of Census; annual report, Cotton Production and Distribution.

No. 909.—COTTON-SYSTEM SPINDEL ACTIVITY, 1948, 1949, 1950, AND COTTON CONSUMPTION, 1946 TO 1950, BY REGION AND STATE

[Years ending July 31. Consumption includes domestic and foreign cotton and is in running bales counting round as half bales, except foreign cotton which is in equivalent 500-pound bales]

REGION AND STATE	COTTON SPINDLES IN PLACE (THOUSANDS) ¹			ACTIVE COTTON SPINDEL HOURS (MILLIONS)			COTTON CONSUMED, EXCLUDING LINTERS (THOUSANDS OF BALES)				
	1948	1949	1950	1948	1949	1950	1946	1947	1948	1949	1950
United States.....	23,798	23,501	22,995	119,017	98,217	109,248	9,163	10,025	9,354	7,795	8,851
Cotton-growing States.....	18,354	18,338	18,244	99,564	83,875	92,746	8,074	8,776	8,264	6,980	8,030
New England.....	4,931	4,698	4,332	17,889	13,115	15,274	884	968	887	644	664
Other States.....	513	465	410	1,564	1,227	1,223	235	281	213	165	157
Alabama.....	1,815	1,769	1,693	10,232	8,270	9,127	1,128	1,238	1,106	945	1,088
Connecticut.....	486	488	490	1,289	1,026	1,319	59	66	61	48	56
Georgia.....	3,217	3,243	3,194	17,393	14,583	16,317	1,971	2,116	1,927	1,600	1,879
Maine.....	648	632	631	2,956	2,513	2,829	138	165	170	147	170
Massachusetts.....	2,701	2,613	2,268	9,790	6,929	7,579	470	525	476	340	310
New York.....	269	262	218	920	600	666	90	100	96	71	61
North Carolina.....	5,927	5,910	5,975	30,619	24,570	27,651	2,382	2,576	2,524	2,098	2,433
Rhode Island.....	753	699	698	2,589	1,646	2,374	81	96	89	53	69
South Carolina.....	5,642	5,666	5,679	32,131	29,209	31,613	1,823	2,028	1,962	1,740	1,953
Tennessee.....	556	556	554	3,205	2,657	2,780	208	214	215	179	200
Texas.....	240	245	209	1,021	864	963	198	200	155	144	163
Virginia.....	643	649	650	3,591	2,565	3,036	107	107	221	211	186
All other States.....	896	769	741	3,281	2,686	2,939	418	481	362	276	293

¹ Includes all cotton-system spindles in place regardless of fiber spun.

Source: Department of Commerce, Bureau of Census; annual report, Cotton Production and Distribution,

No. 910.—COTTON AND RAYON MILL MACHINERY—NUMBER OF MACHINES IN POSSESSION, BY KIND, DECEMBER 31, 1947; IN PLACE, BY KIND AND BY REGION AND STATE, FEBRUARY 28, 1942

[Machinery in place is that which is set up in operating position]

REGION AND STATE	Cards	Combs	ROVING MACHINERY				Spinning spindles	Twisting spindles	Looms
			Slubbers	Speeders	Intermediates	Jacks			
1947									
United States.....	86,442	9,138	708,061	1,301,375	639,422	397,604	22,729,849	3,513,774	470,106
1942									
United States.....	90,582	7,245	637,529	1,962,883	700,060	524,948	24,185,947	3,427,293	522,127
Cotton-growing States.....	72,141	3,828	524,619	1,493,816	520,330	232,444	18,184,663	2,612,863	363,376
North Carolina.....	24,339	2,591	161,780	530,540	162,410	148,002	5,861,613	1,173,460	35,383
South Carolina.....	16,069	409	129,672	491,417	136,000	17,768	5,620,037	304,376	144,770
Georgia.....	15,692	264	124,553	224,347	103,000	9,668	3,154,086	648,122	54,404
Alabama.....	8,305	108	72,405	104,520	50,276	18,120	1,813,716	224,414	34,870
Other cotton-growing States ¹	6,776	306	36,193	133,992	68,644	38,886	1,734,341	202,482	43,940
New England ²	15,441	3,219	90,686	392,722	156,412	282,780	5,297,814	723,078	117,020
Massachusetts.....	8,071	2,171	46,228	260,870	98,220	195,692	2,092,490	405,150	60,700
Rhode Island, Connecticut.....	3,179	708	16,864	71,502	27,412	73,512	1,301,520	264,860	35,029
Middle Atlantic ³	2,616	180	18,308	84,058	20,084	8,212	589,430	87,372	30,483
Midwestern ⁴	384	18	3,016	12,272	3,234	1,512	114,034	3,980	2,248

¹ Includes Arkansas, California, Kentucky, Louisiana, Mississippi, Oklahoma, Tennessee, Texas, and Virginia.

² Includes Maine, New Hampshire, and Vermont, not shown separately.

³ Includes Delaware, Maryland, New Jersey, New York, and Pennsylvania.

⁴ Includes Illinois, Indiana, Michigan, Ohio, and Wisconsin.

Source: Department of Commerce, Bureau of the Census; 1942 data compiled from manufacturers' reports to War Production Board and published in Facts for Industry, Series 32-16-1; 1947 data from Census of Manufactures.

No. 911.—COTTON MANUFACTURES—PRODUCTION BY KIND: 1939 TO 1950

[In thousands of linear yards]

PRODUCT	1939	1946	1947	1948	1949	1950 (prel.)
Cotton woven goods over 12 inches in width, except tire fabrics, total ¹	8,287,249	9,144,418	9,816,769	9,640,376	8,406,351	9,887,344
Cotton duck.....	173,079	241,652	206,415	202,565	216,816	249,387
Narrow sheeting and allied coarse and medium yarn fabrics.....	1,585,034	2,232,578	2,368,084	2,016,813	1,764,965	1,999,902
Print-cloth yarn fabrics.....	2,000,356	2,883,996	3,229,025	3,456,936	3,158,320	3,026,335
Napped fabrics ²	451,412	466,497	602,303	476,264	328,737	380,370
Colored yarn cotton goods and related fabrics.....	683,659	616,205	751,749	805,511	653,162	843,057
Fine cotton goods (all combed or part-combed cotton fabrics, including fabrics having rayon or other synthetic fiber or silk decorations and fine carded goods).....	1,036,206	1,275,542	1,312,582	1,294,387	1,009,935	1,201,469
Towels, toweling, washcloths, and terry-woven fabrics other than towels.....	482,641	414,813	408,606	367,103	349,788	450,386
Wide cotton fabrics.....	557,475	562,336	670,891	671,139	590,569	714,426
Specialties and all other fabrics.....	317,487	461,910	367,024	346,668	334,069	412,062

¹ All data for fabrics in the gray except 1939 blanket and blanketing data which are for finished fabrics.² 1946, 1948, 1949, and 1950 data exclude 9,071,000 yards, 12,787,000 yards, 10,172,000 yards, and 14,356,000 yards respectively of blankets and blanketing, less than 25 percent wool, produced on woolen and worsted looms. For production of wool-and-cotton mixed blankets containing 25 to 98 percent wool, see table 918.³ Includes fabrics containing 51 percent or more cotton by weight, balance rayon.

Source: Department of Commerce, Bureau of the Census; 1939 and 1947 Census of Manufactures reports, and Facts for Industry Series M15A.

No. 912.—TIRE CORD AND FABRIC—PRODUCTION BY KIND: 1939 TO 1950

[In thousands of pounds]

PRODUCT	1939	1946	1947	1948	1949	1950 (prel.)
Tire cord and fabrics, total.....	260,473	524,259	565,261	536,177	435,401	517,515
Cotton.....	260,473	311,191	350,685	284,996	155,923	221,473
Tire cord fabrics woven (except chafer).....	145,069	162,860	285,076	162,205	96,597	126,250
Chafer fabrics and all other tire fabrics.....	17,420	73,686	65,609	62,413	41,644	56,625
Tire cord not woven.....	97,084	74,645	(1)	60,378	17,682	38,589
Rayon and nylon.....	(2)	213,068	214,576	251,181	279,478	206,042
Tire cord fabrics and all other tire fabrics.....	(2)	{ 213,068	{ 188,038	{ 251,181	{ 234,872	{ 245,960
Tire cord not woven.....	(2)	{ 213,068	{ 20,038	{ 251,181	{ 44,606	{ 50,082

¹ Included with tire cord fabrics woven.² Not available.

Source: Department of Commerce, Bureau of the Census; 1939 and 1947 Census of Manufactures reports, and Facts for Industry Series M15A.

No. 913.—COTTON AND RAYON WOVEN GOODS, BLEACHED, DYED OR PRINTED: 1943 TO 1950

[In thousands of linear yards. Data cover bleaching, dyeing, and printing of cotton and rayon woven textiles]

PRODUCT	1943	1946	1947	1948	1949	1950 (prel.)
Bleached, dyed or printed goods	9,034,432	8,648,290	8,915,147	8,840,437	8,290,712	9,328,681
Cotton	7,403,108	6,922,822	6,944,456	6,779,692	6,239,821	7,068,493
Rayon ¹	1,631,324	1,725,408	1,970,691	2,060,745	2,050,891	2,270,188
Bleached and white finished goods	3,900,383	3,578,225	3,814,867	3,529,268	2,980,233	3,466,795
Cotton	3,681,604	3,379,892	3,616,001	3,318,637	2,812,950	3,291,870
Rayon ¹	218,779	198,333	198,866	212,631	167,283	174,026
Plain dyed and finished goods	3,533,410	3,037,150	3,176,320	3,340,402	3,505,218	3,950,245
Cotton	2,479,416	1,871,852	1,757,386	1,819,096	1,942,034	2,166,113
Rayon ¹	1,053,994	1,165,298	1,418,934	1,521,306	1,563,184	1,784,132
Printed and finished goods ²	1,600,639	2,032,915	1,923,960	1,970,767	1,805,261	1,911,641
Cotton	1,242,088	1,671,078	1,571,069	1,643,059	1,484,837	1,600,510
Rayon ¹	358,551	361,837	352,891	326,808	320,424	311,131

¹ Rayon fabrics are defined as fabrics containing 51 percent or more rayon by weight. Rayon means synthetic yarns made by viscose, cuprammonium and cellulose acetate processes. An unknown quantity of fabrics made from nylon and other synthetic fibers are also included in the rayon yardage.

² Includes roller, screen, flock and block printed fabrics.

Source: Department of Commerce, Bureau of Census; 1947 Census of Manufactures reports and Facts for Industry Series M15G.

No. 914.—PYROXYLIN SPREAD, SHIPMENTS BY TYPE OF GOODS, AND CAPACITY: 1935 TO 1948

[Based on monthly figures of processors who coat or impregnate fabrics or paper (except shade cloth) with soluble cotton or pyroxylin preparations, either separately or in combination with other materials. "Light" cotton fabrics include sheetings and print cloths; "Heavy" cotton fabrics include drills, ducks, sateens, broken twills, and moleskins]

[Quantity and value figures in thousands]

YEARLY AVERAGE OR YEAR	Number of establishments	Pyroxylin spread (pounds)	SHIPMENTS						Capacity (Linear yards) ¹		
			Light cotton fabrics		Heavy cotton fabrics		Custom coating				
			Linear yards	Value	Linear yards	Value	Linear yards	Value			
1935-39	21	58,851	33,828	\$8,114	22,132	\$11,865	(3)	(3)	87,851		
1940	21	59,655	33,988	7,032	26,652	13,117	(3)	(3)	87,611		
1941	21	82,331	48,112	12,450	39,945	20,420	(3)	(3)	87,443		
1942	21	55,306	37,335	11,510	28,297	16,426	(3)	(3)	87,515		
1943	21	49,444	34,311	8,188	25,464	15,577	(3)	(3)	94,415		
1944	21	54,882	38,750	12,434	26,747	15,498	(3)	(3)	97,789		
									(pounds)		
1945	29	59,941	34,533	11,355	17,453	11,825	4,22,532	\$4,028	2,378	\$592	185,526
1946	28	70,200	48,336	10,862	21,303	13,654	4,23,692	6,508	4,762	1,716	202,724
1947 ³	45	72,106	38,407	20,408	30,923	29,421	23,234	5,485	6,243	3,275	218,332
1948 ⁴	45	53,265	28,211	16,121	19,926	19,537	17,370	2,874	4,144	2,166	230,213

¹ Data not collected prior to January 1945.

² Based on maximum quantity of 1.27 to 1.30 sateen coated to a finished weight of 17½ ounces per linear yard, in a month of 350 working hours.

³ Data for "Custom coating" included with "Light cotton fabrics" and "Heavy cotton fabrics."

⁴ Data for "Fabrics other than cotton" included with "Custom coating" to avoid disclosing data for individual establishments.

⁵ Based on all machines suitable for pyroxylin coating, assuming 600 working hours per month and entire production on 53"—1.32 sateen coated to a finished weight of 17½ ounces per linear yard assuming 40 percent solids. No comparative data available from 1935 to 1944.

⁶ Data for 1947 and 1948 represent more complete coverage than obtained in prior years. Pyroxylin spread in 1947, on a basis comparable to prior years, amounted to 66,158,000 pounds.

Source: Department of Commerce, Bureau of the Census; 1935-46, Facts for Industry Series M15F; 1947, reports of Census of Manufactures; 1948, compiled with assistance of Plastic Coating and Film Association.

RAYON BROAD WOVEN FABRICS

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No. 915.—RAYON BROAD WOVEN FABRICS—PRODUCTION, BY TYPE: 1946 TO 1950

[Data cover production of rayon broad woven fabrics containing by weight 51 percent or more rayon. Fabrics containing 25 percent or more wool by weight, however, are classed as woolen mixtures and are not included]

[In thousands of linear yards]

PRODUCT	1946	1947	1948	1949	1950 (prel.)
Rayon broad woven fabrics, total¹	1,718,364	1,976,835	2,186,634	1,957,105	2,312,944
100 percent filament rayon fabrics, total	1,048,965	1,236,805	1,356,393	1,296,675	1,531,974
Flat fabrics, total	555,187	652,252	738,525	756,141	827,001
Bright viscose taffetas	46,426	50,828	50,417	49,214	59,662
Pigment viscose taffetas	76,625	103,706	139,442	125,871	136,161
Acetate taffetas	77,712	76,516	116,818	103,998	188,331
Cross-dyed taffetas	23,031	13,281	12,051	7,245	10,438
Jersey weaves	9,867	5,555	(*)	(*)	
Sharkskins	9,311	15,580	13,782	10,341	3,565
Twills and sorges	129,266	169,325	172,635	158,758	200,086
Viscose satins	16,280	26,331	23,704	27,647	24,012
Acetate satins	114,973	142,264	164,495	159,018	155,045
All other flat fabrics	51,698	48,922	55,181	54,049	49,701
Twisted yarn fabrics, total	493,778	584,553	617,868	540,534	704,883
Crepe satins	25,675	28,268	27,742	19,906	20,217
Flat, faille and canton crepes	87,735	111,964	139,615	151,555	186,874
French crepes	98,235	119,856	128,990	138,370	159,541
Plied yarn fabrics, plain weave	83,220	118,393	136,431	72,840	121,538
Plied yarn fabrics, fancy weave	52,873	40,422	34,859	7,879	9,222
Marquisettes	55,417	57,959	53,087	78,816	86,648
Ninons and voiles	41,445	39,082	33,428	22,755	35,270
Other sheers (georgettes, triple sheers, etc.)	37,832	49,896	54,109	43,720	72,960
All other twisted yarn fabrics	11,346	12,723	11,607	6,693	3,604
100 percent spun rayon fabrics, total	191,606	332,451	380,746	340,603	417,411
Twills (including serges, gabardines, etc.)	38,928	86,429	117,710	166,678	229,940
Ribbed and corded fabrics (poplins, bedford cord, etc.)	3,450	(*)	(*)	3,894	(*)
Challis	18,700	50,974	48,987	72,318	48,955
Linen type flakes	22,825	25,672	33,690	14,140	35,038
Plied yarn fabrics	49,326	55,800	53,888	26,981	33,796
All other 100 percent spun rayon fabrics	63,582	104,616	126,162	50,592	69,682
Combination filament and spun rayon fabrics, total	172,609	178,982	253,873	184,533	200,713
Poplins and failles	3,62,999	3,67,350	92,402	62,351	73,979
Shantungs	22,111	23,750	34,091	15,176	19,566
Fujis	65,832	60,440	53,000	26,503	19,392
All other filament and spun rayon	21,667	21,442	74,380	80,503	87,770
Pile, upholstery, drapery, tapestry, and tie fabrics, total²	46,398	57,060	38,576	29,860	37,212
Velvets, plushes and other pile fabrics	9,535	14,587	11,417	9,300	12,811
Upholstery, drapery, and tapestry fabrics	15,962	21,273	9,948	7,151	12,467
Yarn-dyed tie fabrics	14,394	13,282	9,280	6,544	4,028
Non-yarn-dyed tie fabrics	6,607	7,918	7,031	6,805	7,306
All other rayon mixtures, total	253,786	171,537	157,046	105,434	125,634
Rayon and wool	39,225	33,038	31,093	23,158	8,180
Filament rayon and cotton	81,744	55,279	61,019	49,323	51,445
Spun rayon and cotton	83,812	48,300	38,985	19,028	41,745
Rayon and other fibers	49,005	34,860	25,049	13,925	24,264
Silk, nylon, glass, and other fabrics, total³	61,829	61,673	80,204	145,264	193,956
100 percent nylon fabrics	21,639	21,881	32,658	92,997	111,687
100 percent silk fabrics	6,633	9,936	17,018	15,380	22,142
Other woven fabrics, not classified above	30,757	29,806	29,828	36,887	60,127

¹ Includes estimated production for a few mills not reporting; estimates distributed by fabric classification.

² Included with "All other 100 percent spun rayon fabrics" to avoid disclosing data for individual establishments.

³ Includes bengalines, etc.

⁴ Fabrics containing 51 percent or more rayon by weight, without separation as to type of yarn used; includes filament rayon, spun rayon and mixtures of rayon and other fiber.

⁵ Includes fabrics made of casein, other synthetic fibers and mixtures of rayon and other fibers containing less than 51 percent of rayon.

⁶ Includes small amount of silk mixtures.

Sources: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports, and Facts for Industry Series M150.

No. 916.—WOOL MANUFACTURING EQUIPMENT, BY TYPE: 1899 TO 1947

[Represents equipment in possession of wool manufacturing establishments, regardless of condition. 1943 data based on reports of machinery "in place," and include estimates of number in possession but not in place. Data for 1899, 1914, and 1929 exclude mills whose product was valued at less than \$600 in 1899 and 1914, and less than \$5,000 in 1929; 1943 and 1947 include all mills, regardless of size.]

TYPE	1899	1914	1929	1943	1947
Rag pickers ¹	(2)	1,769	1,495	1,346	-----
Garnets ¹	(2)	413	437	577	-----
Cards (sets), except shoddy cards.....	(2)	(2)	8,831	7,172	-----
Woolen.....	7,768	6,810	6,610	5,247	-----
Worsted ¹	(2)	(2)	2,221	1,925	-----
Combs.....	1,451	2,426	2,661	2,613	2,523
Spinning spindles, total.....	3,220,792	4,307,365	4,859,608	3,642,902	3,022,872
Woolen.....	2,225,893	2,079,626	2,303,297	1,661,818	1,166,042
Worsted.....	994,899	2,227,739	2,547,401	1,981,084	1,856,830
Twisting spindles, total ¹	442,672	876,788	917,146	798,220	-----
Woolen.....	98,252	91,792	95,778	144,080	-----
Worsted.....	344,420	784,991	821,368	684,190	-----
Looms, except carpet and rug ²	63,294	76,789	69,554	43,210	35,448
Carpet and rug looms.....	9,796	9,821	10,267	6,557	5,683

¹ Data for 1899, 1914, and 1929 include estimates to provide for these machines in knitting mills. 1929 data also include estimates on number of woolen spinning spindles and worsted cards in knitting mills.

² Data not available.

³ 1943 and other years not strictly comparable. Census of Manufactures for 1899, 1914, 1929, and 1947 called for a report on looms from those mills whose principal products were wool and hair goods while 1943 inquiry covered all mills consuming weaving yarns spun on woolen or worsted spinning spindles. Includes pile fabric looms conforming with these definitions.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports, and Facts for Industry Series M15H.

No. 917.—WOOL MANUFACTURING EQUIPMENT IN PLACE, 1943 TO 1950, AND BY REGION AND STATE, 1943

[Machinery in place is that which is set up in operating position]

YEAR, REGION, AND STATE	Worsted combs	Woolen spinning spindles	Worsted spinning spindles	Woolen and worsted looms	WOOL CARPET AND RUG LOOMS	
					Broad	Narrow
United States, 1943.....	2,582	1,653,550	1,957,593	42,213	2,422	3,488
United States, 1947.....	2,656	1,561,198	1,020,542	38,572	2,329	3,354
United States, 1948.....	2,679	1,535,127	1,863,335	38,146	2,350	3,209
United States, 1949.....	2,720	1,423,860	1,830,744	37,403	2,307	2,901
United States, 1950.....	2,750	1,329,379	1,813,366	36,934	2,332	2,546
1943						
United States.....	2,532	1,653,550	1,957,593	42,213	2,422	3,488
New England.....	1,804	855,471	1,390,135	25,699	840	660
Connecticut.....	(1)	127,664	15,192	2,588	(1)	(1)
Maine.....	(1)	152,343	96,312	3,466	(1)	(1)
Massachusetts.....	1,141	336,318	693,381	10,781	(1)	(1)
New Hampshire.....	(1)	122,071	62,864	2,610	-----	-----
Rhode Island.....	560	74,982	497,050	5,336	-----	-----
Vermont.....	-----	42,113	20,336	918	-----	-----
Middle Atlantic.....	672	414,504	454,830	9,548	1,886	2,577
New Jersey.....	405	66,985	156,434	2,597	193	291
New York.....	61	206,986	82,144	2,371	1,216	1,278
Pennsylvania.....	206	140,573	215,762	4,580	477	1,008
Southern ²	-----	102,654	58,312	8,557	106	242
North Central ³	106	160,245	43,436	2,658	-----	-----
Western ⁴	-----	30,676	11,380	751	-----	-----

¹ Not shown separately to avoid disclosing information for individual establishments.

² Ala., Del., Ga., Ky., N. C., S. C., Tenn., Texas, Va., W. Va., Md., and Okla.

³ Ill., Ind., Iowa, Mich., Minn., Mo., Ohio, and Wis.

⁴ Calif., Oreg., Utah, Wash., and Wyo.

Source: Department of Commerce, Bureau of the Census; Facts for Industry Series M15H.

WOOL MANUFACTURES

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No. 918.—WOOLEN AND WORSTED FABRICS—PRODUCTION, BY KIND: 1939 TO 1950

[Woolen and worsted woven goods defined as fabrics containing by weight 25 percent or more wool fiber produced on woolen and worsted looms]

PRODUCT	1939	1945	1946	1947	1948	1949	1950
Thousands of linear yards ¹							
Woven goods (except woven felt).....	371,848	493,431	603,718	500,478	497,561	414,382	457,776
Apparel fabrics ²	821,008	401,434	524,286	436,532	434,348	351,172	381,268
Men's wear.....	178,858	204,191	228,114				
Men's wear suitings and pantings.....	149,788	151,128	188,098				
Men's wear shirtings.....	1,880	25,227	18,313				
Men's wear overcoatings and topcoatings.....	27,188	27,841	21,702				
Women's and children's wear.....	107,080	141,443	234,921				
Weighing up to 8.0 ounces.....	(3)	21,992	42,872				
Weighing 9-12.9 ounces.....	(3)	78,151	127,477				
Weighing over 13 ounces.....	(3)	41,300	64,572				
General use fabrics.....	25,668	48,100	51,627				
Melton, mackinaw, snow and ski suit cloths.....	8,892	17,278	17,933				
Linings and interlinings.....	6,204	23,662	20,188				
Bathrobe flannels.....	10,572	7,160	13,506				
Other apparel fabrics.....	9,404	7,700	9,624				
Nonapparel fabrics (except woven felts).....	50,840	91,997	79,432	63,946	63,213	63,210	70,508
Blankets.....	19,576	80,167	48,457	31,571	21,422	22,466	24,642
98 percent or more wool or similar animal fibers.....	(3)	52,894	18,494				
50 percent but less than 98 percent wool or similar animal fibers.....	(3)	7,778	10,775				
25 percent but less than 50 percent wool or similar animal fibers.....	(3)	19,495	19,188				
Drapery and upholstery fabrics.....	5,688	7,817	28,681	28,032	33,845	31,760	39,985
Other nonapparel.....	25,576	4,018	2,344	3,443	7,946	8,984	11,881
Thousands of pounds							
Papermakers' felts.....	5,164	5,819	6,590	7,238	7,186	5,878	7,503
Other woven felts.....	1,570	3,182	3,331	3,481	3,188	2,469	3,000

¹ Measure used in 1939 was square yards; data converted to a 54-inch linear yard measure, excepting blankets which have been converted to a 72-inch linear yard measure. Data for 1945-47 on narrow fabrics converted by reporting companies to a 54-inch linear yard measure (72-inch for blankets).

² Includes data for military fabrics reported by types. Estimates as to end use classification made on less than 15 percent of total quantity of apparel fabrics.

³ Data not available.

⁴ Data not collected on same basis.

⁵ An unknown quantity of these fabrics included in women's and children's wear.

Source: Department of Commerce, Bureau of the Census; 1939 and 1947 Census of Manufactures reports, and Facts for Industry Series M15H.

No. 919.—KNIT GOODS: CLOTH, UNDERWEAR, AND OUTERWEAR—PRODUCTION BY TYPE: 1947, 1948, AND 1949

PRODUCT	Unit	1947	1948	1949
Knit cloth for sale, total	Million pounds	152.6		147.8
Warp knit fabrics	do	41.5	(1)	42.9
Circular knit fabrics	do	111.1		104.9
Knit underwear and nightwear:				
Made from warp knit fabrics, all fibers	Thousand dozens	7,708	9,129	14,050
Made from circular knit fabrics:				
Rayon, silk, and synthetics	do	10,932	11,377	12,972
Cotton and wool	do	40,557	(1)	36,733
Knit outerwear:				
Sweaters, jackets, and jerseys	do	6,677	7,940	6,924
Bathing suits and trunks	do	500	331	362
Knit headwear and neckwear	do	1,556	1,515	1,460

¹ Not available.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports and Facts for Industry Series M15K, M67C, and M67G.

No. 920.—WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR: 1939 TO 1950

TYPE OF GARMENT	Unit	GARMENTS CUT				
		1939	1947	1948	1949	1950
Women's and misses' blouses	1,000 dozens	2,886	7,400	7,851	9,329	9,899
Women's and misses' unit price dresses	1,000 units	127,701	134,951	147,028	131,088	
Women's and misses' dozen price dresses	do	194,383	75,456	92,088	105,936	101,508
Women's and misses' suits	do	4,237	14,352	14,963	15,643	16,955
Women's and misses' skirts	1,000 dozens	1,084	2,020	2,907	3,601	3,886
Women's and misses' untrimmed coats	1,000 units	17,428	18,956	22,936	22,022	20,352
Women's and misses' fur-trimmed coats	do	1,924	2,638	1,927		1,813

Source: Department of Commerce, Bureau of Census; 1947 Census of Manufactures reports and Facts for Industry Series M67H.

No. 921.—MEN'S AND BOYS' CLOTHING—SELECTED GARMENTS CUT: 1937 TO 1950

[Leaders indicate comparable data not available]

TYPE OF GARMENT	Unit	1937	1939	1947	1948	1949	1950
Suits	Thousands units	23,743	27,354	28,882	26,050	22,097	
Men's and youths'	do	20,733	24,737	26,428	23,412	19,220	23,149
Boys'	do	3,010	2,617	2,454	2,638	2,877	
Separate trousers	do		60,905	53,230	50,704		
Separate coats	do		5,286	6,272	6,921		
Men's and youths'	do		4,760	5,302	5,458		
Boys'	do		526	970	1,463		
Dress and sport shirts, men's and youths'	Thousands dozens	12,027	13,362	17,042	16,461	15,077	16,981
Overalls	do	4,114	3,973	6,807	7,271	8,054	
Men's and youths'	do		4,241	4,270	4,633		6,007
Boys'	do		2,566	3,001	3,371		
Work shirts (includes flannel)	do	6,082	6,850	5,815	5,113	5,563	
Men's and youths'	do		4,950	4,648	5,229		5,144
Boys'	do		856	465		324	

¹ Preliminary.

² Includes polo, tennis, and basque shirts of knitted fabrics.

Source: Department of Commerce, Bureau of the Census; monthly data published in Facts for Industry Series M67B.

No. 922.—HOSIERY—PRODUCTION, BY TYPE: 1945 TO 1950

[Thousands of dozens of pairs]

TYPE	1945	1946	1947	1948	1949	1950
Total, all types	135,841	157,383	149,545	147,027	144,512	160,486
Women's full-fashioned, total	34,740	40,323	38,875	44,706	45,228	51,585
Silk	(1)	1,989	1,098	403	313	230
Nylon	3,056	26,397	33,494	42,867	44,560	51,032
Rayon	31,444	11,401	3,919	1,239	187	111
Cotton	162	847	300	143	134	196
All other yarns	78	189	64	54	25	17
Seamless, total (including men's full-fashioned)	101,100	117,060	110,609	102,321	99,284	108,901
Women's seamless, total	7,420	9,832	11,246	8,517	7,605	7,449
Silk			3	42	25	3
Nylon	216	2,002	3,843	3,706	3,630	4,303
Rayon	3,072	3,819	3,084	1,038	1,476	1,161
Cotton	2,474	2,549	3,318	2,373	2,231	1,619
Wool	77	105	105	108	77	80
Ribbed hose	681	667	893	560	256	283
Men's full-fashioned	118	171	129	105	70	35
Men's seamless half-hose, total	35,030	26,734	24,662	16,131	14,430	14,023
Silk	6	69	19	21	8	4
Nylon	6	230	450	295	424	605
Rayon	8,180	8,566	8,634	6,140	4,375	4,281
Cotton	14,875	13,182	12,156	7,953	7,557	7,271
Wool	11,969	4,687	3,401	1,722	2,006	1,862
Men's slack socks, total	13,564	21,885	21,911	25,939	26,507	32,438
Silk	(2)	40	49	33	4	4
Nylon	(2)	140	648	828	2,280	3,038
Rayon	(2)	6,491	8,143	9,444	6,756	7,802
Cotton	(2)	12,007	11,657	14,609	16,457	20,291
Wool	(2)	3,206	1,414	1,025	1,010	1,303
Cotton bundle goods	5,248	5,216	5,627	6,077	5,311	5,511
Woollen bundle goods	3,704	2,104	1,830	1,747	1,642	1,547
Athletic socks	847	2,302	1,610	1,806	2,108	2,364
Crew socks	(2)	3,628	3,230	2,785	2,994	3,082
Slipper socks						440
Children's and infants'	6,281	8,150	8,221	8,408	8,563	9,465
Anklets, total	28,888	37,138	32,195	30,806	29,964	32,557
Misses' and women's	18,816	25,012	16,680	13,449	14,099	14,183
Men's and boys'	1,986	3,015	3,673	3,382	3,245	4,190
Children's	(2)	(2)	5,809	6,750	6,600	8,130
Infants'	8,085	9,111	6,033	7,225	5,930	6,084

¹ Less than 500 dozens.² Not available.³ Included with men's slack socks.

Source: National Association of Hosiery Manufacturers, New York, N. Y.; published annually in Hosiery Statistics.

No. 923.—SHOES AND SLIPPERS (EXCEPT RUBBER FOOTWEAR)—PRODUCTION BY CLASS: 1939 TO 1950

[Thousands of pairs]

CLASS	1939	1947	1948 ¹	1949	1950
Total	435,259	484,964	462,320	473,005	490,915
Dress and work shoes	361,578	398,084	347,281	336,460	356,961
Men's dress, including moccasin type dress shoes	70,637	84,957	76,761	70,862	74,788
Men's work, including moccasins	28,125	21,786	27,423	25,955	26,286
Youths' and boys'	17,316	19,829	17,165	16,074	16,450
Women's, including sandal type dress shoes	168,777	182,816	140,266	141,921	152,388
Misses', including sandal type dress shoes	{ 46,091	{ 27,026	{ 26,354	{ 25,349	{ 26,381
Children's					
Infants'	24,632	26,282	24,378	22,264	24,046
Babies'					
Slippers for housewear	49,603	47,052	42,700	54,376	51,597
Athletic shoes	4,144	4,233	3,773	3,193	3,615
Play shoes	{ 19,874	{ 31,839	{ 65,955	{ 76,155	{ 75,310
Footwear, not specified by kind					

¹ Includes establishments accounting for about 96 percent of total output.

Source: Department of Commerce, Bureau of the Census; 1939 and 1947 Census of Manufactures reports, and Facts for Industry Series M68A.

NO. 924.—PRINTING AND PUBLISHING—RECEIPTS: 1937 to 1947

[For number and circulation of newspapers and periodicals, see table 540]

CLASS	VALUE (THOUSANDS OF DOLLARS)		
	1937	1939	1947
Aggregate value and receipts ¹	2,303,178	2,309,062	5,711,872
Newspapers and periodicals published.....			
Newspapers.....	1,269,523	1,254,714	2,837,861
Subscriptions and sales.....	861,688	845,687	1,792,338
Advertising.....	287,508	300,192	599,026
Periodicals.....	574,180	539,495	1,192,413
Subscriptions and sales.....	407,835	460,027	1,045,523
Advertising.....	171,061	184,572	419,782
Books and pamphlets ²	235,874	224,455	625,741
Books published.....	230,128	254,987	608,702
Pamphlets published.....	189,868	149,380	435,134
Printed for publication by others ³	8,389	15,000	20,656
Greeting cards ⁴	70,871	90,607	153,002
Publishers' sales.....	2,32,637	44,286	129,267
Printed for others.....	(3)	28,314	107,716
Miscellaneous publishing.....	(3)	15,972	21,551
Newspapers, ready prints and periodicals printed for others ⁵	(3)	(3)	123,474
Letterpress.....	85,070	102,586	269,424
Lithographing.....	83,145	89,458	258,740
Engraving and plate printing.....	1,925	1,355	9,384
Gravure.....	(6)	11,773	279
Other printing.....	676,820	652,489	31,021
Letterpress.....	501,996	488,129	1,713,054
Lithographing.....	128,626	144,016	1,176,532
Engraving and plate printing.....	27,505	13,850	456,092
Gravure.....	18,603	5,894	40,000

¹ The inclusion of "Books and pamphlets printed for publication by others," "Greeting cards printed for others," "Newspapers, ready prints and periodicals printed for others," etc., results in duplication in the aggregate value and receipts, as follows: 1937, \$158,466,000; 1939, \$201,027,000; 1947, \$482,292,000. (No separate data available for greeting cards for 1937.) These amounts represent receipts by commercial printers for work done by them for other printers or for publishers, and consequently enter twice into the aggregate value and receipts.

² Includes souvenir cards.

³ No data.

⁴ Includes publication of picture postcards, souvenir cards, sheet music, bluebooks, directories, catalogs, maps, atlases, globe covers, shopping news, and business service publications.

⁵ Included with "Other printing, gravure."

Source: Department of Commerce, Bureau of the Census; reports of Census of Manufactures.

No. 925.—CHEMICALS—PRODUCTION, BY KIND, 1939 TO 1950

[Data for chemicals shown are restricted to a selected group comprised for the most part of inorganic chemicals and related products which are sufficiently important economically to justify publication. Data for production by Government-owned arsenals, ordnance works, and certain plants operated for Government by private industry are excluded, except that data for chemicals manufactured by Tennessee Valley Authority are included]

CHEMICAL AND BASIS	UNIT	1939	1947	1948	1949	1950 ¹	
Ammonia, synthetic anhydrous	Short tons	310,822	1,114,000	1,089,786	1,294,057	1,562,269	
Ammonium nitrate, original solution (100%NH ₄ NO ₃)	do	(²)	1,086,869	988,342	1,018,706	1,205,206	
Ammonium sulfate, synthetic (technical) ³	M pounds	(²)	391,696	528,051	1,692,389	2,100,452	
Calcium arsenate (100%Ca ₃ (AsO ₄) ₂)	do	4,41,340	46,904	27,234	16,006	(³)	
Calcium carbide (commercial)	Short tons	(²)	607,113	682,934	605,356	671,402	
Calcium phosphate:							
Monobasic (100%CaH ₄ (PO ₄) ₂)	M pounds	74,076	73,796	72,529	(³)	(³)	
Dibasic (100%CaHPO ₄)	do	(²)	82,046	88,201	(³)	104,146	
Carbon, activated ⁴	do	32,336	71,096	66,031	67,115	76,595	
Carbon dioxide:							
Liquid and gas	do	(²)	235,200	285,780	285,277	274,318	
Solid (dry ice)	do	356,804	720,401	768,871	818,272	804,246	
Chlorine, gas ⁵	Short tons	514,401	1,443,219	1,640,035	1,767,020	2,069,214	
Chrome green (C. P.)	M pounds	10,029	13,982	12,672	10,255	15,372	
Chrome yellow and orange (C. P.)	do	8,38,938	46,470	40,481	36,322	54,109	
Hydrochloric acid (100%HCl)	Short tons	123,881	442,558	458,263	493,959	525,373	
Hydrofluoric acid, anhydrous and technical (100%HF ₂)	M pounds	14,842	55,806	64,012	53,056	70,349	
Hydrogen	Mil. cu. ft.	(²)	21,185	28,259	29,657	43,541	
Lend arsenate (acid and basic)	M pounds	59,569	31,096	24,630	16,866	(³)	
Methanol (natural) (100%CH ₃ OH)	M gallons	4,005	2,598	2,366	2,030	2,082	
Molybdate chrome orange (C. P.)	M. pounds	(²)	4,476	5,800	5,285	7,811	
Nitric acid (100%HNO ₃)	Short tons	107,740	1,189,411	1,132,819	1,129,521	1,332,378	
Oxygen	Mil. cu. ft.	(²)	14,420	16,224	14,502	17,789	
Phosphoric acid:							
Total (50%H ₃ PO ₄)	Short tons	(²)	1,012,971	1,193,833	1,304,544	1,612,669	
From phosphorus (50%H ₃ PO ₄)	do	(²)	529,848	584,147	716,944	813,158	
From phosphate rock (50%H ₃ PO ₄)	do	(²)	483,123	609,686	677,600	799,511	
Silver nitrate (100%AgNO ₃)	M ounces	(²)	38,336	50,894	41,025	54,017	
Soda ash (commercial sodium carbonate):							
Ammonia soda process—							
Total wet and dry (98-100%Na ₂ CO ₃) ⁶	Short tons	2,826,000	4,524,668	4,575,452	3,916,016	3,694,727	
Finished light (98-100%Na ₂ CO ₃) ¹⁰	do	(²)	2,206,590	2,317,575	2,051,405	1,934,433	
Finished dense (98-100%Na ₂ CO ₃) ¹⁰	do	(²)	1,620,406	1,534,730	1,324,024	1,392,464	
Natural (Na ₂ CO ₃ equivalent) ^{11,12}	do	121,858	276,428	297,474	203,204	298,783	
Sodium bicarbonate (refined) (100%Na-HCO ₃)	do	(²)	150,913	180,596	160,915	153,787	145,614
Sodium bichromate and chromate	do	(²)	58,164	90,285	95,975	75,652	90,680
Sodium hydroxide (caustic soda):							
Electrolytic process—							
Liquid (100%NaOH)	do	512,492	1,363,429	1,606,972	1,056,788	1,983,125	
Solid (100%NaOH)	do	(²)	247,054	303,971	257,418	314,795	
Lime-soda process—							
Liquid (100%NaOH)	do	532,914	740,721	769,697	666,230	604,431	
Solid (100%NaOH)	do	(²)	246,303	250,951	169,086	121,349	
Sodium phosphate:							
Monobasic (100%Na ₂ HPO ₄)	do	(²)	14,600	12,344	12,722	15,620	
Dibasic (100%Na ₂ HPO ₄)	do	(²)	32,382	78,806	86,455	158,750	
Tribasic (100%Na ₃ PO ₄)	do	(²)	116,731	88,568	80,198	70,367	
Meta (100%NaPO ₃)	do	(²)	30,490	25,046	27,823	34,021	
Tetra (100%Na ₄ P ₂ O ₇)	do	48,691	56,641	66,360	78,376	80,980	
Sodium silicate (soluble silicate glass, liquid and solid) (anhydrous)	do	(²)	492,837	486,313	446,202	491,789	
Sodium sulfate:							
Anhydrous (refined) (100%Na ₂ SO ₄)	do	(²)	134,069	169,018	136,270	183,960	
Glauber's salt (100%Na ₂ SO ₄ .10H ₂ O) ¹³	do	(²)	202,285	184,744	156,634	204,979	
Salt cake (crude) (commercial) ¹¹	do	(²)	693,517	668,240	537,843	554,564	

For footnotes, see next page.

No. 925.—CHEMICALS—PRODUCTION, BY KIND, 1939 TO 1950—Continued

CHEMICAL AND BASIS	UNIT	1939	1947	1948	1949	1950 ¹
Sulfuric acid:						
Gross (100% H ₂ SO ₄) ¹²	Shorttons	4,795,003	10,780,166	11,455,948	11,431,883	12,860,110
Chamber process (100% H ₂ SO ₄)	do	2,120,963	3,274,753	3,070,071	2,744,814	2,843,809
Contact process (gross) (100% H ₂ SO ₄) ¹³	do	2,674,040	7,505,413	8,385,277	8,687,069	10,015,244
Contact process (new) (100% H ₂ SO ₄) ¹⁴	do		6,828,040	7,666,264	7,982,162	9,200,955
Fortified spent acid (100% H ₂ SO ₄)	do		676,773	719,013	704,907	814,289
Zinc yellow (zinc chromate) (C. P.)	do		3,476	4,752	5,252	4,646

¹ Preliminary.² No comparable data.³ Excludes byproduct coke-oven production. Data for 1948-1950 include synthetic ammonium sulfate produced in coke plants, as well as quantities produced for the account of Department of the Army.⁴ Proportion of estimate, 5 percent.⁵ Not shown separately to avoid disclosure of individual operations.⁶ Includes data for deodorizing, decolorizing, and water purification grades. Data for gas-mask solvent recovery grades excluded.⁷ Total production including quantities liquified for use, storage or shipment.⁸ Includes data for molybdate chrome orange.⁹ Includes quantities diverted to manufacture of caustic soda and sodium bicarbonate and quantities processed to finished light and finished dense soda ash.¹⁰ Excludes quantities converted to finished dense soda ash.¹¹ Collected in cooperation with Bureau of Mines.¹² Excludes production from Wyoming.¹³ Proportion of estimate, 3 percent or less.¹⁴ Liquid production figures represent total production for each process, including quantities later evaporated to solid caustic and reported as such.¹⁵ Includes sulfuric acid of oleum grades.

Source: Department of Commerce, Bureau of the Census; 1939 and 1947 Census of Manufactures reports; 1948-50 compiled from manufacturers' reports and published in Facts for Industry Series M19A. Monthly data published currently.

No. 926.—SYNTHETIC ORGANIC CHEMICALS—PRODUCTION AND SALES, BY GROUP: 1948 AND 1949

GROUP	1948			1949		
	Production (1,000 lbs.) ¹	Sales (1,000 lbs.) ¹	Sales value (\$1,000) ¹	Production (1,000 lbs.) ¹	Sales (1,000 lbs.) ¹	Sales value (\$1,000) ¹
ORGANIC CHEMICALS, CYCLIC						
Intermediates	2,877,761	1,136,271	182,353	2,501,369	868,772	148,759
Finished products	2,681,731	2,222,535	935,534	2,465,852	2,183,572	907,928
Dyes	201,376	186,782	163,833	139,389	130,244	142,513
Color Index	131,987	142,841	95,575	100,433	98,871	77,966
Prototype	27,513	23,933	38,300	20,514	19,584	35,450
Ungrupped	21,800	20,008	20,952	18,442	17,780	29,067
Color lakes and toners	40,880	34,300	39,181	37,009	32,874	36,625
Medicinals	36,345	32,833	232,252	37,334	31,539	247,029
Flavor and perfume materials	15,445	12,526	16,713	15,443	12,675	17,431
Plastics and resin materials	922,903	748,044	185,763	808,623	718,305	168,703
Rubber processing chemicals	81,851	60,331	26,998	68,922	52,456	23,386
Elastomers (synthetic rubbers)	882,802	749,938	138,738	661,166	687,916	127,204
Miscellaneous ²	500,549	306,871	132,056	607,966	491,504	144,427
ORGANIC CHEMICALS, ACYCLIC						
Intermediates and finished products	12,890,946	6,111,447	1,031,667	12,568,619	6,073,304	1,058,394
Medicinals	7,290	5,407	15,419	4,163	3,984	20,678
Flavor and perfume materials	6,748	6,481	9,097	8,340	7,398	11,413
Plastics and resin materials	502,075	494,887	186,549	502,488	542,972	215,765
Rubber-processing chemicals	14,104	11,360	9,302	11,007	9,394	7,048
Elastomers (synthetic rubbers)	290,034	294,170	97,652	290,413	285,116	97,813
Miscellaneous ²	12,009,435	5,299,133	712,058	11,662,208	5,224,440	705,677

¹ Excludes quantity and value of interplant transfers.² Includes plasticizers and surface-active agents.

Source: U. S. Tariff Commission; annual report, Synthetic Organic Chemicals, United States Production and Sales.

No. 927.—INDUSTRIAL EXPLOSIVES MANUFACTURED AND SOLD IN THE UNITED STATES: 1926 TO 1949

(In thousands of pounds. Excludes exports)

YEAR	Total	Per-mis-sible explo-sives ¹	High explo-sives other than permis-sible	BLACK BLAST-ING POWDER		USE	Total	Per-mis-sible explo-sives ¹	High explo-sives other than permis-sible	Black blasting pow-der
				Gran-ular	Pellet					
1926	535,890	67,685	310,518	157,687	(2)	1948	725,227	126,282	550,086	33,240
1927	499,011	63,847	303,468	131,696	(2)	Coal mining	330,600	125,185	159,258	30,623
1928	475,251	60,708	292,785	98,004	23,754	Metal mining	116,010	56	115,009	46
1929	509,708	62,669	326,993	86,818	33,227	Quarrying and nonmetallic mineral mining	125,702	823	123,135	1,717
1930	445,000	53,826	201,301	63,139	36,735	Railway and other construction work	132,326	138	131,774	414
1931	337,565	41,578	216,157	46,800	33,530	All other purposes	20,529	80	20,010	439
1932	233,887	32,225	137,908	35,783	27,061	1949	631,230	91,630	505,601	20,077
1933	265,987	33,027	157,849	33,887	30,328	Coal mining	248,432	90,535	126,409	17,572
1934	314,768	30,208	206,626	37,193	31,742	Metal mining	110,837	35	110,804	17
1935	308,381	30,170	200,324	34,223	34,605	Quarrying and nonmetallic mineral mining	122,247	777	120,185	1,279
1936	301,605	47,859	202,047	40,420	41,278	Railway and other construction work	130,782	160	130,105	517
1937	404,744	40,579	288,024	29,837	36,478	All other purposes	18,012	122	18,097	692
1938	332,130	41,859	238,576	23,552	28,143	1940	122,230	91,630	505,601	20,077
1939	380,438	49,950	278,250	28,322	29,915	Coal mining	248,432	90,535	126,409	17,572
1940	423,369	68,436	305,180	29,084	30,670	Metal mining	110,837	35	110,804	17
1941	481,927	70,012	351,857	27,882	31,576	Quarrying and nonmetallic mineral mining	122,247	777	120,185	1,279
1942	400,255	84,022	350,090	24,167	31,367	Railway and other construction work	130,782	160	130,105	517
1943	477,651	92,650	338,573	19,814	26,608	All other purposes	18,012	122	18,097	692
1944	464,111	102,538	318,613	16,282	26,077	1941	122,230	91,630	505,601	20,077
1945	457,311	97,407	322,966	12,303	24,644	Coal mining	248,432	90,535	126,409	17,572
1946	636,315	100,268	389,233	13,539	23,285	Metal mining	110,837	35	110,804	17
1947	651,391	122,349	476,017	9,887	26,627	Quarrying and nonmetallic mineral mining	122,247	777	120,185	1,279
1948	725,227	126,282	550,086	8,230	25,004	Railway and other construction work	130,782	160	130,105	517
1949	631,230	91,630	505,601	5,853	14,224	All other purposes	18,012	122	18,097	692

¹ Represents type of high explosives approved by Bureau of Mines as suitable for safe use in coal mines provided specifications of use are followed.² Pellet powder (first manufactured for general sale in 1925) included with granular powder.³ Includes 16,502,000 liquid oxygen explosive in 1947, 15,620,000 in 1948, and 13,022,000 in 1949.

Source: Department of the Interior, Bureau of Mines; Production of Explosives in the United States.

No. 928.—ASPHALT AND TAR ROOFING AND SIDING PRODUCTS—SHIPMENTS: 1933 TO 1950

PRODUCT AND UNIT OF MEASURE	1933	1938	1943	1945	1946	1947	1948	1949	1950
Asphalt roofing, total									
1,000 squares	24,787	34,610	51,349	49,157	60,864	71,461	59,939	52,357	65,024
Smooth-surfaced	13,838	15,027	19,236	15,832	19,421	22,482	16,344	13,038	14,377
Mineral-surfaced	5,686	8,799	16,088	13,532	13,717	16,357	13,560	12,510	14,116
Strip shingles	4,223	9,054	13,014	10,024	24,505	28,560	26,210	23,573	32,109
Individual shingles	991	1,730	2,411	2,860	3,221	4,053	3,810	3,236	4,422
Asphalt sidings, total	(1)	2,590	2,338	4,254	4,954	4,316	3,280	2,499	2,009
Roll form	(1)	(1)	2,140	3,851	4,599	3,903	2,866	2,090	1,659
Shingle form	(1)	(1)	108	403	355	413	414	409	350
Mineral-surfaced insulating board									
base siding	1,000 squares	(1)	(1)	1,885	2,444	3,686	2,560	2,188	2,402
Asphalt board products									
1,000 sq. ft.	(1)	(1)	(1)	91,504	70,002	86,086	31,032	32,184	48,376
Saturated felts, total									
tons of 2,000 lb.	(1)	(1)	(1)	327,266	296,087	457,870	538,042	500,688	650,339
Asphalt	(1)	(1)	(1)	273,179	223,978	354,291	448,751	421,510	550,017
Tar	(1)	(1)	(1)	54,087	72,109	103,579	89,291	79,178	100,372
Saturated and coated shinglings, total									
tons of 2,000 lb.	(1)	(1)	(1)	14,221	15,699	37,619	14,619	10,284	12,025
Asphalt	(1)	(1)	(1)	11,881	(3)	(3)	(3)	(3)	(3)
Tar	(1)	(1)	(1)	2,340	(3)	(3)	(3)	(3)	(3)

¹ Not available.² Represents brick and all other types of siding.³ Not shown separately, to avoid disclosing operations of individual companies.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports, and Facts for Industry Series M26D.

No. 929.—RUBBER (NATURAL, RECLAIMED, AND SYNTHETIC)—NEW SUPPLY, DISTRIBUTION, AND STOCKS: 1943 TO 1950

[In tons of 2,240 pounds. Natural rubber refers to dry weights of all types, including liquid latex, guayule, etc. Synthetic includes G.R.-S, Neoprene, Butyl, and Butadiene-Acrylonitrile; reclaimed includes natural rubber reclaims for 1943 and both natural and synthetic rubber reclaims for 1944-50.]

ITEM	1943	1944	1945	1946	1947	1948	1949	1950
New supply, total.....	591,109	1,142,138	1,209,761	1,444,074	1,489,562	1,506,225	1,205,552	1,620,112
Domestic production, total.....	536,072	1,028,367	1,064,218	1,085,650	800,097	755,204	617,719	788,190
Natural.....	359	130	530	12				
Reclaimed.....	303,091	260,607	243,309	295,612	291,395	266,861	224,029	313,006
Synthetic.....	231,722	762,630	820,373	740,026	508,702	488,343	303,690	476,184
Imports, total.....	55,037	118,771	145,543	408,424	689,465	751,021	677,833	830,922
Natural.....	54,970	107,704	135,136	400,675	683,854	735,340	600,566	804,142
Reclaimed.....	67	24	(1)	40	18	10	25	1,059
Synthetic.....		11,043	10,407	7,709	1,098	15,671	17,242	25,721
Distribution, total.....	834,248	1,087,597	1,143,979	1,406,202	1,440,764	1,353,492	1,234,685	1,590,321
Domestic consumption, total.....	779,607	961,866	1,040,045	1,314,706	1,410,722	1,330,517	1,211,582	1,562,280
Natural.....	317,634	144,113	105,429	277,597	562,661	627,332	574,522	720,268
Reclaimed.....	291,082	251,083	241,036	275,410	288,395	261,113	222,070	303,733
Synthetic.....	170,891	566,070	603,580	761,699	559,668	442,072	414,381	638,289
Exports, total.....	54,641	125,731	103,934	91,496	30,042	22,975	23,103	28,034
Natural.....	20,815	9,665	6,743	4,338	4,101	6,673	6,253	8,640
Reclaimed.....	15,678	11,800	13,413	14,461	14,556	17,428	10,367	11,741
Synthetic.....	18,148	104,266	83,778	72,667	11,385	4,874	6,483	7,653
Stocks, end of year, total ²	233,090	287,514	350,324	387,926	227,347	289,304	232,336	177,081
Natural.....	139,594	93,650	118,715	237,407	120,038	141,541	106,610	80,215
Reclaimed.....	46,201	43,832	28,155	33,666	35,943	32,630	28,263	35,708
Synthetic ³	47,295	150,032	203,454	116,793	62,366	115,133	98,054	52,758

¹ Less than 0.5 long tons.

² Differences between "new supply" and "distribution" not precisely comparable with "stocks" due to year-end and inventory adjustments.

³ Includes stocks shipped for export which had not yet cleared port.

Source: 1943-45, Office of Temporary Controls, Civilian Production Administration, and predecessor agencies; published in Facts for Industry Series 20-1. 1946-50, Department of Commerce, National Production Authority. Monthly data published in Survey of Current Business.

No. 930.—LEATHER—PRODUCTION, BY PRINCIPAL TYPES OF RAW STOCK:
1937 TO 1950

[Cattle hide in thousands of hides, other figures in thousands of skins]

YEAR	Cattle hide	Calf and kip	Goat and kid	Sheep and lamb ¹	YEAR	Cattle hide	Calf and kip	Goat and kid	Sheep and lamb ¹
1937	22,380	12,027	46,554	34,232	1944	26,114	10,930	34,666	53,959
1938	19,047	12,991	31,905	28,941	1945	27,576	11,636	24,026	51,847
1939	22,095	14,027	40,419	39,384	1946	27,033	10,882	24,137	47,971
1940	21,013	11,387	37,697	37,920	1947	28,813	12,471	37,256	36,555
1941					1948	26,071	10,484	37,931	33,532
1942	28,099	13,098	45,355	51,885	1949	23,388	10,173	34,752	28,736
1943	30,822	12,264	41,122	53,634	1950	24,387	10,059	37,166	31,410

¹ Prior to 1940, includes skivers and excludes fleshers; beginning 1940, includes fleshers and excludes skivers.

Source: Tanners' Council of America. Monthly figures published in Survey of Current Business.

No. 931.—LEATHER PRODUCTS, BY KIND: 1939 AND 1947

PRODUCT	PRODUCTION		PRODUCT	PRODUCTION	
	1939	1947		1939	1947
CATTLE HIDE AND KIP SIDE LEATHERS					
Grains:	1,000 lbs.	1,000 lbs.	Calf and whole kip leathers	1,000 sq. ft.	1,000 sq. ft.
Sole leather	330,201	383,057	Upper (skins)	156,214	128,296
Vegetable tanned (backs, bonds, sides)	(*)	218,428	Other	138,470	119,994
Chrome or retan (backs, bonds, sides)	241,338	20,003	Goat and kid leathers	22,744	8,302
Heads, bellies, shoulders, etc.	188,803	145,226	Upper (skins)	210,916	180,626
Weltling leather	7,933	7,270	Lining (skins)	153,829	148,001
Beltling leather		16,722	Glove (skins)	54,274	25,982
Curried (butts, butt bonds)	6,107	15,360	Garment (skins)	2,123	{ 820
Shoulders	(*)	1,362	Other	690	5,843
Mechanical leather (sides)	(*)	3,769	Cabretta	(*)	28,583
Harness leather (sides, backs)	7,068	5,385	Upper (skins)	(*)	7,075
Collar, skirting, lace, and latigo leather (sides)	9,414	6,930	Glove (skins)	22,320	{ 17,611
			Garment (skins)		
Bag, case, and strap leather (sides)	1,000 sq. ft.	1,000 sq. ft.	Other	(*)	3,897
Upholstery leather—top grains and machine buffs (hides)	21,245	44,645	Sheep and lamb leathers	15,773	283,193
Upper leather, excluding patent (sides)	23,387	26,661	Upper (skins)	8 12,615	
Patent leather (sides)	370,610	402,820	Lining (skins)	87,238	114,065
Glove leather, excluding athletic (sides)	51,286	51,168	Fancy (skins)	14,272	12,137
Garment leather (sides)	10,633	{ 10,025	Glove (skins)	142,786	{ 22,141
Flat leather, handbag leather, and other fancy leather (sides)		{ 13,018	Garment (skins)		50,499
Other	3,962	10,009	Skivvers	31,371	24,034
Finished splits (including deep buffs and bufflings)	(*)	33,347	Fleshers, including chamois	4,151	10,654
Bottom stock	(*)	276,708	Textile and roller (skins)	3,755	4,761
Upper	(*)	51,404	Other	(*)	32,287
Lining	39,330	51,001	Shearlings (skins)	19,050	35,005
Glove			Horse, colt, mule, ass, and pony leathers	(*)	53,436
Garment	138,186	79,542	Sole	3,960	3,408
Upholstery, incl. beef buffs	10,193	14,683	Upper	11,592	8,235
Other	(*)	17,644	Glove	25,079	{ 13,031
			Garment	(*)	22,552
			Other	(*)	6,210
			Kangaroo and wallaby leather (skins)	5,520	8,853
			Deer and elk leathers	7,648	7,599
			Reptile leather	(*)	(*)
			Aquatic leather	(*)	(*)
			Pig and hog leathers, incl. peccary, carpincho, bacon rind and strips, etc.	837	20,206
			Other animals	(*)	2,668

¹ Includes belting leather, except belting butts-curried.

² Not available.

³ Included with cattle hide and kip side sole leathers.

⁴ Included with lining, glove, and garment finished splits.

⁵ Includes bottom stock splits.

⁶ Includes lining and fancy calf and whole kip leathers.

⁷ Included with sheep and lamb upper leather.

⁸ Includes cabretta upper leather.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

No. 932.—PRESSED AND BLOWN GLASSWARE—QUANTITY AND VALUE OF SHIPMENTS, BY CLASS: 1949 AND 1950

[Includes only products manufactured from glass produced in reporting establishment]

CLASS	Unit of measure	1949		1950	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
Shipments, total value			242,418		322,703
Tumblers, goblets, and other stemware	Thous. of doz.	61,328	46,322	74,815	51,900
Cooking ware ¹	Thous. pieces	44,729	8,436	54,608	10,977
Ornamental, decorative, novelty glassware, and smokers' accessories, total.			11,212		11,700
Lighting glassware, total				76,956	133,268
Electric-light bulb blanks, electronic-tube blanks (including radio, x-ray, radar, and special tubes), and fluorescent tubes.			60,906		114,014
Bowls, all types.				2,805	3,316
Enclosing globes, all types.				2,953	3,570
Shades, reflectors, and torcheres.				5,184	5,887
Railroad, marine, and traffic lighting glassware.				1,045	888
Lamp chimneys.	Thous. of doz.	1,109	904	1,317	1,300
Lantern globes (oil and electric).	do.	384	613	426	889
All other lighting glassware.				2,366	3,404
All other pressed and blown glassware (except glass containers). ²			99,492		114,753

¹ Heat-resistant, heat-treated, and annealed.

² Includes tubing (except fluorescent and neon), technical, scientific, and industrial glassware.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M77E.

No. 933.—GLASS CONTAINERS—DIRECT EXPORTS AND DOMESTIC PRODUCTION AND SHIPMENTS, BY KIND: 1948, 1949, AND 1950

[In thousand gross]

ITEM	1948		1949		1950	
	Production	Shipments	Production	Shipments	Production	Shipments
Total	98,679	97,333	90,767	89,827	106,380	107,897
Direct exports		3,309		2,377		2,643
Domestic production and shipments:						
Narrow-neck, total	63,029	58,746	56,210	53,637	66,398	65,322
Food		9,852		8,835		11,061
Medicinal and health supplies		11,822		11,650		14,685
Chemical, household, and industrial	33,571	5,729	32,892	5,989	7,320	
Toiletries and cosmetics		4,031		5,172		5,077
Beverage, returnable	8,588	7,702	6,042	5,274	6,678	6,201
Beverage, nonreturnable	17	13	87	50	146	108
Beer, returnable	5,320	4,100	1,986	1,095	3,237	3,155
Beer, nonreturnable	3,820	3,565	3,014	3,001	3,213	3,211
Liquor	8,403	7,760	8,004	8,241	9,805	9,709
Wine	3,301	3,182	3,585	3,421	3,703	3,745
Wide-mouth, total	35,650	35,218	34,557	33,813	39,982	39,932
Food		22,937		22,086		1,28,309
Medicinal and health supplies		3,018		2,903		3,449
Chemical, household, and industrial	28,683	970	28,253	1,34,758		1,418
Toiletries and cosmetics		1,540		1,073		1,595
Dairy products	3,366	3,247	3,442	3,311	3,731	3,695
Fruit jars	2,010	1,937	1,430	1,647	(1)	(1)
Jelly glasses	184	180	114	116	(1)	(1)
Packers' tumblers	1,407	1,380	1,318	1,246	1,493	1,466

¹ Data for fruit jars and jelly glasses combined with wide-mouth food containers to avoid disclosing operations of individual companies.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M77C.

REFRACTORIES

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No. 934.—REFRACTORIES—SHIPMENTS: 1948 AND 1949

PRODUCT	Unit of measure	1948		1949	
		Quantity	Value f. o. b. plant	Quantity	Value f. o. b. plant
Clay refractories, total			\$1,000 110,389		\$1,000 102,144
Fire-clay brick, standard and special shapes, except super-duty	M 9" equiv.	640,745	58,948	514,378	48,819
Superduty fire-clay brick, standard and special shapes	do	62,025	8,321	51,586	7,680
Insulating fire-brick, standard and special shapes	do	36,804	5,997	33,136	5,840
High-alumina brick, standard and special shapes (50% Al ₂ O ₃ and over, except fused alumina and mullite)	do	20,708	4,896	16,346	4,392
Ladle brick	do	184,052	9,526	150,790	8,557
Glass-house pots, tank blocks, upper structure, and floaters	Short ton	25,505	3,404	17,564	2,639
Hot-top refractories	M 9" equiv.	53,284	4,760	34,284	3,261
Sleeves, nozzles, runner brick, and tuyeres	do	51,815	5,682	39,189	4,802
High-temperature bonding mortars	Short ton	68,254	4,675	53,829	4,146
Plastic refractories (including wet and dry ramming mixtures)	do	100,063	4,250	77,080	3,701
Cast and castables (hydraulic setting)	do	51,754	3,272	47,675	3,430
Ground crude fire clay and high-alumina material	do	350,432	3,191	327,864	2,943
Other clay refractories			2,457		2,034
Nonclay refractories, total			94,384		82,027
Silica brick and shapes	M 9" equiv.	318,203	34,118	261,719	30,320
Magnesite and magnesite-chrome (magnesite predominating) brick and shapes	do	24,556	11,717	18,650	9,279
Chrome and chrome-magnesite (chrome predominating) brick and shapes	do	41,077	16,073	34,777	14,312
Graphite and other carbon crucibles and retorts	Short ton	11,431	5,384	7,328	3,628
Other graphite and carbon refractories	do	1,157	445	814	298
High-temperature bonding mortars	do	36,907	3,697	30,820	3,332
Plastic refractories (including wet and dry ramming mixtures)	do	88,328	5,030	72,015	4,934
Dead-burned magnesia and magnesite	do	305,000	11,421	218,000	18,606
Other nonclay brick and shapes (including silicon carbide, fused alumina, fused magnesia, mullite, kyanite, sillimanite, zirconia, forsterite, etc.)			14,704		13,049
Other nonclay refractory materials sold in lump or ground form (including ground silica and nonclay cast and castables)			2,616		2,875

¹ Excluded from total to avoid duplication.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M27C.

No. 935.—CONCRETE PRODUCTS—PRODUCTION AND SHIPMENTS: 1945, 1946, and 1947

PRODUCT AND UNIT OF MEASURE	PRODUCTION, QUANTITY		1947	
	1945	1946	Shipments and interplant transfers	
			Quantity	Value f. o. b. plant (\$1,000)
Concrete products, total				\$327,266
Concrete block and brick, total				177,816
Block: Light-weight aggregate (cinder, expanded slag, etc.)	175,314	386,389	460,782	77,296
M block (8" x 8" x 16" equiv.)	225,053	553,718	563,350	94,228
Heavy-weight aggregate	do	62,607	291,052	6,292
Brick	218,167	(1)	4,333	82,446
Concrete pipe, total		M tons	1,478	28,111
Culvert pipe	do		717	525
Sewer pipe: Reinforced	do		(1)	560
Nonreinforced	do		(1)	422
Pressure pipe	do		(1)	721
Irrigation pipe	do		(1)	516
Other pipe (including drain tile and conduits)	do		(1)	8,161
Other precast concrete products, total				67,004
Roof-and-floor slabs and tile	M sq. ft.		40,617	13,522
Burial vaults and boxes	Number		396,900	15,830
Laundry trays	do		506,007	3,823
Cast stone for architectural purposes (including window sills, lintels, ashlar, coping, posts, ornamental columns, interior facings, and other trim)	M sq. ft.			7,915
Roof-and-floor joists and beams	M lin. ft.		(1)	2,319
Silo staves	M staves		(1)	10,211
Other precast concrete products (including piling, posts and poles, crossing slabs, garden furniture, storage and septic tanks, catch-basin covers, shower receptors, gravestones, and prefabricated housing units)				18,888

¹ Not available.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports, and Facts for Industry Series M26C.

No. 936.—STRUCTURAL CLAY PRODUCTS—PRODUCTION AND SHIPMENTS, BY KIND:
1947 TO 1950

PRODUCT AND UNIT OF MEASURE	1947	1948	1949	1950
Unglazed brick:				
Production.....1,000 standard bricks..	5,142,343	5,842,479	5,524,305	6,175,004
Shipments: Quantity.....do.....	5,011,556	5,706,838	5,251,633	6,347,923
Value.....1,000 dollars.....	111,915	134,603	120,170	158,545
Unglazed hollow facing tile:				
Production.....1,000 brick equivalent..	135,386	1,335,292	1,370,406	1,429,281
Shipments: Quantity.....do.....	129,850	1,321,841	1,357,461	1,427,015
Value.....1,000 dollars.....	3,985	1,16,029	1,18,717	1,22,312
Glazed hollow facing tile:				
Production.....1,000 brick equivalent..	229,752	(1)	(1)	(1)
Shipments: Quantity.....do.....	214,273	(1)	(1)	(1)
Value.....1,000 dollars.....	10,331	(1)	(1)	(1)
Vitrified paving brick:				
Production.....1,000 bricks..	24,771	(2)	(2)	(2)
Shipments: Quantity.....do.....	20,727	(2)	(2)	(2)
Value.....1,000 dollars.....	769	(2)	(2)	(2)
Unglazed structural tile:				
Production.....short tons..	1,237,239	1,262,953	1,357,627	1,300,466
Shipments: Quantity.....do.....	1,183,659	1,250,904	1,259,445	1,325,347
Value.....1,000 dollars.....	12,319	13,364	14,060	14,874
Vitrified clay sewer pipe:				
Production.....short tons..	1,304,687	1,496,247	1,463,013	1,545,510
Shipments: Quantity.....do.....	1,341,523	1,432,512	1,349,598	1,548,566
Value.....1,000 dollars.....	42,984	46,731	44,641	52,028
FLOOR AND WALL TILE AND ACCESSORIES				
Glazed—				
Production.....1,000 square feet..	77,387	3 104,061	3 98,146	3 124,420
Shipments: Quantity.....do.....	75,601	3 102,251	3 93,115	3 126,643
Value.....1,000 dollars.....	33,702	3 46,046	3 43,905	3 61,471
Unglazed (except quarry tile)—				
Production.....1,000 square feet..	26,431	(3)	(3)	(3)
Shipments: Quantity.....do.....	25,450	(3)	(3)	(3)
Value.....1,000 dollars.....	8,274	(3)	(3)	(3)
Quarry tile:				
Production.....1,000 square feet..	7,374	(3)	(3)	(3)
Shipments: Quantity.....do.....	6,847	(3)	(3)	(3)
Value.....1,000 dollars.....	1,674	(3)	(3)	(3)
Drain tile:				
Production.....short tons..	933,980	750,259	720,700	547,102
Shipments: Quantity.....do.....	894,920	734,331	688,010	545,183
Value.....1,000 dollars.....	13,048	10,866	11,084	8,488
All other clay construction products, ⁴ value of shipments 1,000 dollars.....	21,903	(2)	(2)	(2)

¹ Glazed hollow facing tile included with unglazed hollow facing tile.² Not available.³ Unglazed floor and wall tile and quarry tile included with glazed floor and wall tile.⁴ Includes glazed brick, flooring brick, acid-proof brick, silo and corner brick tile, architectural terra cotta, roofing tile, wall coping, flue lining, conduits, stove lining, and chimney pipe, tops, and thimbles.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports, and Facts for Industry Series M26B.

PIG IRON AND FERRO-ALLOYS

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No. 937.—PIG IRON AND FERRO-ALLOYS—PRODUCTION, BY DISPOSITION, KIND, AND FUEL AND MATERIALS USED: 1900 TO 1949

[In thousands of short tons (2,000 lbs.)]

ITEM	1900	1910	1920	1925	1930	1935	1940	1945	1948	1949
Total pig iron and ferro-alloys	15,444	30,580	41,357	41,105	35,562	28,937	47,399	54,919	61,912	54,917
By disposition:										
For sale	(¹)	(¹)	12,011	10,070	7,933	4,505	8,837	8,351	8,705	7,463
For maker's use	(¹)	(¹)	20,346	31,034	27,630	19,433	40,561	46,569	53,206	47,454
By kind:										
Basic	1,201	10,175	18,746	22,027	20,601	15,253	33,988	39,867	46,315	40,905
Bessemer and low-phosphorus	8,936	12,595	13,510	10,550	8,193	4,747	7,885	8,570	8,116	7,361
Foundry (incl. ferro-silicon)	3,781	5,892	6,073	6,059	4,436	2,137	2,791	3,067	3,612	3,171
Malleable	194	944	1,488	1,740	1,760	1,350	1,832	2,350	2,591	2,400
Forge	888	632	356	270	57	6	4			
Ferromanganese, spiegeleisen, and all other	442	342	604	458	517	444	949	1,066	1,278	1,070
By fuel:										
Coke	13,135	29,409	40,656	40,885	35,455	28,864	47,312	54,871	51,912	54,917
Anthracite	1,878	727	339							
Charcoal	431	444	362	220	109	84	86	48	(³)	(³)
Materials used: ⁴										
Iron ore, briquettes, etc.	27,027	57,948	74,424	73,304	60,101	39,405	79,672	91,276	106,123	93,609
Cinder, scale, scrap, etc.	1,792	3,136	5,585	5,619	7,052	4,768	7,480	9,749	9,632	8,849
Coke	(¹)	(¹)	42,046	39,296	31,168	20,272	40,451	48,965	57,293	49,941
Limestone	8,313	16,271	19,964	16,973	12,431	8,425	16,678	20,863	26,424	22,801
Total number furnaces Dec. 31	406	473	452	395	300	258	281	241	246	247
Furnaces in blast Dec. 31	282	206	216	238	97	124	206	201	237	218

¹ Not available.

² Includes ferro-alloys made in electric furnaces.

³ Charcoal included with coke.

⁴ Coke and bituminous coal 1900 to 1925.

⁴ Materials consumed in manufacture of pig iron only, beginning 1930.

⁵ Or as of Jan. 1 of following year.

Source: American Iron and Steel Institute, annual report.

No. 938.—PIG IRON AND FERRO-ALLOYS—PRODUCTION BY STATES: 1942 TO 1949

[In thousands of short tons (2,000 pounds)]

STATE	1942	1943	1944	1945	1946	1947	1948	1949
Grand total	60,903	62,770	62,866	54,919	46,200	60,117	61,912	54,917
Pig iron, total	59,076	60,811	61,007	53,223	44,779	58,329	60,055	53,413
Massachusetts, New York	4,221	4,178	3,947	3,295	2,780	3,869	3,875	3,541
Pennsylvania	18,065	18,575	18,510	16,171	13,261	17,563	17,742	15,097
Maryland, West Virginia	1 4,391	1 4,595	1 4,781	3,510	2,949	3,662	4,240	4,383
Kentucky, Tennessee, Texas	(¹)	(¹)	(¹)	808	656	818	1,228	1,089
Alabama	4,082	3,780	3,949	3,532	3,149	3,920	4,013	3,663
Ohio	13,140	13,725	13,371	11,269	9,534	12,317	12,471	10,640
Indiana	2 8,114	2 8,208	2 8,474	5,982	4,829	6,401	6,498	5,991
Illinois	5,850	5,950	5,686	5,045	4,357	5,600	5,513	4,913
Michigan, Minnesota	(²)	(²)	(²)	1,921	1,893	1,924	2,101	2,002
Colorado, Utah, California	2 1,212	2 1,800	2 2,280	1,642	1,381	2,245	2,370	2,154
Ferro-alloy, total	1,827	1,959	1,859	1,696	1,421	1,788	1,856	1,504
New York, New Jersey	540	544	478	449	386	431	451	313
Pennsylvania	697	603	627	573	437	553	616	467
Virginia, West Virginia, South Carolina	3,308	3,422	3,380	171	141	278	302	266
Tennessee	(³)	(³)	(³)	66	64	84	88	47
Alabama	(³)	(³)	(³)	85	60	53	28	-37
Ohio	4,352	4,391	4,363	204	200	212	210	166
Other States				148	138	177	161	206

¹ Production for Kentucky, Tennessee, and Texas included with Maryland and West Virginia.

² Production for Michigan included with Indiana; production for Minnesota included with Colorado, Utah, and California.

³ Production for Tennessee and Alabama included with Virginia, West Virginia, and South Carolina.

⁴ Includes production for Indiana, Illinois, Iowa, Colorado, and Washington.

Source: American Iron and Steel Institute, annual report.

No. 939.—PIG IRON AND FERRO-ALLOYS AND STEEL INGOTS AND CASTINGS—
PRODUCTION, EXPORTS, AND IMPORTS: 1871 TO 1949

[In short tons (2,000 pounds). Prior to 1901 exports and imports are for years ending June 30 following year specified; calendar years thereafter. Imports are imports for consumption beginning with 1933. All production figures are for calendar years. For figures for earlier years, see *Abstract for 1931*.]

YEARLY AVERAGE OR YEAR	PIG IRON AND FERRO-ALLOYS			Steel ingots and cast- ings, pro- duction ¹	YEAR	PIG IRON AND FERRO-ALLOYS			Steel ingots and cast- ings, pro- duction ¹
	Produc- tion	Exports of do- mestic	Imports			Production	Exports of do- mestic	Imports	
1871-1875	2,518,088	8,301	164,102	2,430,575	1933	14,947,074	12,625	219,838	26,020,229
1876-1880	2,870,295	3,816	309,792	899,898	1934	18,075,202	15,691	176,273	29,181,924
1881-1885	4,817,228	5,048	364,048	1,850,540	1935	23,937,423	19,840	211,901	38,183,705
1886-1890	7,928,320	13,893	257,566	3,687,895	1936	34,752,689	26,439	284,487	53,469,099
1891-1895	9,108,976	26,741	61,351	5,236,824	1937	41,582,550	916,160	180,625	56,636,945
1896-1900	12,870,969	251,180	38,425	9,452,781	1938	21,460,164	515,604	80,008	31,751,990
1901-1905	20,428,425	50,921	352,537	17,212,083	1939	38,677,097	288,224	129,497	52,708,714
1906-1910	26,907,689	88,052	308,040	24,826,707	1940	47,398,529	655,617	45,503	66,982,686
1911-1915	30,820,405	226,252	148,681	31,783,886	1941	56,686,604	610,729	28,844	82,839,259
1916-1920	41,451,661	463,931	119,718	46,888,598	1942	60,903,304	150,151	31,606	86,031,931
1921-1925	34,132,119	41,444	405,785	41,138,917	1943	62,769,947	231,068	28,056	88,836,512
1926-1930	42,155,091	58,316	289,090	54,186,963	1944	82,866,198	185,626	34,190	89,841,601
1931-1935	17,486,488	14,521	177,424	27,553,544	1945	54,919,020	122,819	74,193	79,701,648
1936-1940	36,174,206	476,409	144,024	52,334,066	1946	46,199,826	134,584	55,103	66,602,724
1941-1945	59,629,017	280,050	39,378	85,410,090	1947	60,111,319	92,676	281,478	84,894,071
1951	20,637,516	17,280	115,965	29,058,961	1948	61,911,559	112,855	319,433	88,640,473
1952	9,835,227	7,771	163,144	15,322,901	1949	54,016,785	115,971	174,878	77,978,176

¹ Beginning 1934, includes only steel castings produced in foundries producing steel ingots.

² 1875 only.

Source: Production, American Iron and Steel Institute, annual report. Exports and imports, Department of Commerce, Bureau of Census; annual report, Foreign Commerce and Navigation of the U. S. and records.

No. 940.—ROLLED AND MISCELLANEOUS STEEL PRODUCTS—PRODUCTION, BY KIND: 1925 TO 1949

[In short tons (2,000 pounds). See also *Historical Statistics*, series J 170.]

KIND	1925	1930	1935	1940	1945	1948	1949
Hot-rolled products, total	37,393,395	38,054,568	26,840,298	48,660,369	59,811,669	69,191,952	60,882,387
Plates	4,203,865	4,102,362	1,629,987	4,323,408	7,245,888	7,612,090	6,547,315
Sheets	4,588,452	3,932,944	5,796,624	11,705,956	12,087,487	17,924,671	16,813,808
Black plate	2,182,261	2,120,144	2,307,462	521,924	941	157,719	109,703
Strip	1,398,471	2,174,885	2,965,300	2,077,744	2,542,935	3,185,039	2,837,881
Strip and sheets for cold reduced black plate and tin plate	(1)	(1)	(1)	3,103,627	4,436,924	5,722,826	5,249,800
Hoops	229,655	80,425	100,634	97,074	51,891	47,769	28,400
Cotton ties and baling bands	308,905	51,787	27,085	44,918	34,216	65,318	72,133
Bars—merchant	6,338,438	4,627,810	4,142,944	6,450,263	9,649,412	9,589,946	7,300,262
Bars—concrete	917,937	952,169	624,243	1,425,908	834,806	1,500,624	1,663,847
Structural shapes	4,036,626	3,983,070	3,955,700	4,232,346	4,487,164	5,455,523	4,672,284
Steel piling	64,136	118,275	145,929	188,125	188,639	170,045	237,470
Rails	3,119,488	2,098,021	796,921	1,678,986	2,417,520	2,207,822	1,001,020
Long splice bars and tie plate bars	921,241	670,157	300,471	515,928	856,638	813,002	572,881
Skelp	3,617,340	3,003,892	1,514,328	2,709,000	2,894,023	3,617,703	3,639,074
Blanks, tube rounds or pierced billets for seamless tubes	(2)	1,397,935	1,067,776	2,320,966	3,384,489	3,937,950	3,404,265
Wire rods	3,186,015	2,630,432	2,738,689	4,351,848	4,531,157	5,430,603	4,388,394
Rolled forging billets	386,179	340,681	380,697	919,826	5,566,697	1,145,138	897,757
Blooms, billets, etc. for export	209	10,623	44,759	1,677,905	178,600	55,556	61,071
Rolled steel car wheels	(2)	(2)	83,714	101,102	291,375	329,480	276,644
All other	1,794,182	790,206	217,428	116,425	170,867	162,184	119,372
Miscellaneous products: ³							
Tin plate and terneplate	1,856,730	1,882,619	1,996,960	2,738,581	2,827,483	4,008,488	3,802,485
Galvanized formed products	1,269,556	1,170,681	1,151,743	1,695,300	1,676,181	1,626,090	1,795,303
Wire (plain)	89,110	73,047	67,245	84,854	58,717	125,852	85,537
Wire nails	(1)	(1)	2,177,810	3,071,824	3,544,826	4,586,557	3,712,350
Cut nails and spikes	772,687	478,071	443,606	649,503	583,048	846,653	784,156
Pipes and tubes (black)	36,805	22,996	19,748	24,377	15,270	30,017	25,098
Forgings made by rolling mills ⁴	(1)	(1)	2,276,544	4,272,684	6,030,243	7,376,440	7,362,338

¹ Not available.

² Included in all other.

³ These are mostly further elaborations of products listed above.

⁴ Includes forged axles, beginning 1930.

Source: American Iron and Steel Institute, annual report.

No. 941.—STEEL—PRODUCTION OF INGOTS AND STEEL FOR CASTINGS:
1890 TO 1949

[In short tons (2,000 pounds.) See also *Historical Statistics*, series J 165-169]

YEAR	Total ¹	OPEN HEARTH			Bessemer	Electric	Crucible
		Total	Basic	Acid			
1890	4,790,320	574,820	(*)	(*)	4,131,536	(*)	79,718
1900	11,410,928	3,805,911	2,850,502	955,409	7,486,942	(*)	112,629
1910	29,226,309	18,485,050	17,127,408	1,357,642	10,542,305	58,398	130,979
1915	36,000,160	26,520,594	24,985,772	1,534,822	9,281,679	77,741	127,436
1920	47,188,886	36,592,522	35,140,810	1,451,712	9,949,057	566,370	80,937
1925	50,840,747	42,598,627	41,537,823	1,090,804	7,530,837	680,373	21,910
1930	45,583,421	39,265,073	38,380,614	874,559	5,639,714	680,111	2,523
1935	38,183,705	34,401,280	34,004,585	396,695	3,175,235	606,471	719
1939	52,708,714	48,400,800	47,828,700	581,100	3,358,916	1,020,067	931
1940	66,982,686	61,573,083	60,882,840	690,243	3,708,578	1,700,006	1,024
1941	82,830,250	74,389,619	73,312,851	1,076,768	5,578,071	2,860,256	2,313
1942	86,031,931	76,501,957	75,182,065	1,318,892	5,553,424	3,974,540	2,010
1943	88,836,512	78,621,804	77,207,870	1,412,934	5,625,492	4,589,070	146
1944	89,641,600	80,363,953	79,108,294	1,195,059	5,039,923	4,237,669	25
1945	79,701,648	71,939,002	71,069,876	869,726	4,305,318	3,456,704	
1946	66,602,724	60,711,963	60,112,300	599,663	3,327,737	2,563,024	(*)
1947	84,804,071	76,873,703	76,209,268	664,525	4,232,543	3,787,735	(*)
1948	88,040,470	79,340,157	78,714,852	625,305	4,243,172	5,057,141	(*)
1949	77,978,176	70,248,803	69,742,110	606,693	3,940,656	3,782,717	(*)

¹ Includes all other grades not shown separately, as follows: 1890, 4,248 tons; 1900, 5,445; 1910, 3,577; 1915, 1,710. Beginning 1935, figures include only that part of steel for castings which was made in foundries producing steel ingots.

² Not available.

³ Included with electric steel.

Source: American Iron and Steel Institute, annual report.

No. 942.—BLAST FURNACES AND STEEL MILLS—SUMMARY: 1889 TO 1947

[Data for years prior to 1937 include figures for steel castings, thereafter such data are excluded]

YEAR	Number of establishments	Production and related workers (average number)	Wages (\$1,000)	Value added by manufacture (\$1,000) ¹
1889	719	171,181	80,273	151,415
1890	668	222,490	120,820	281,569
1900	654	278,505	187,807	399,013
1910	695	416,748	711,407	1,321,507
1923	658	424,913	696,761	1,280,910
1925	595	300,814	660,297	1,281,970
1927	602	389,270	645,534	1,210,534
1929	591	419,534	730,974	1,622,837
1931	526	278,206	357,645	623,199
1933	466	288,045	270,367	481,520
1935	468	374,808	458,584	893,081
1937	352	461,118	765,427	1,503,959
1939	334	388,441	598,037	1,284,681
1947	301	470,785	1,431,536	2,603,757
Blast furnaces:				
1937 ²	87	23,075	38,001	127,644
1939 ²	81	19,537	28,312	87,083
1947	86	32,697	63,508	328,060
Steel works and rolling mills:				
1937	265	438,043	717,425	1,370,314
1939	253	368,904	569,724	1,147,548
1947	215	438,088	1,337,938	2,275,697

¹ Value of products less cost of materials, supplies, fuel, electricity, and contract work. For 1889-1933, cost of contract work was not deducted.

² Includes data for 5 establishments in 1937 and 2 in 1939 engaged in production of sintered ore and flue dust and operated independently of blast furnaces.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

No. 943.—IRON AND STEEL CASTINGS—SHIPMENTS: 1946 TO 1950

[In short tons. For malleable iron castings, data represent complete coverage. Data for gray iron castings and steel castings represent complete coverage for 1946; data for 1947-50 represent preliminary estimates of complete coverage, based on a sample of the foundries]

YEAR	Malleable iron castings	GRAY IRON CASTINGS			STEEL CASTINGS			
		Total	Pressure pipe and fittings	Soil pipe and fittings	All other gray iron castings	Total	Grade of steel	
			Carbon	Alloy	All other gray iron castings		Carbon	Alloy
1946	752,028	10,269,657	786,314	409,214	9,074,129	1,432,049	1,112,243	319,806
1947	895,054	12,540,960	1,031,626	577,180	10,932,145	1,025,055	1,241,005	384,050
1948	933,265	12,785,909	1,149,553	639,989	10,996,387	1,760,032	1,387,708	302,824
1949	713,330	10,540,284	1,029,743	563,310	8,956,231	1,250,460	923,168	327,292
1950	920,502	12,905,562	1,203,762	761,317	10,940,483	1,461,667	1,060,062	395,605

Source: Department of Commerce, Bureau of the Census. Monthly data published in Facts for Industry Series M21A, M21B, and M22A.

No. 944.—STEEL CASTINGS FOR SALE—PRODUCTION AND ORDERS BOOKED, BY TYPE OF CASTING: 1920 TO 1950

[In short tons. Approximate coverage of industry is as follows: 1920-30, 80 percent; 1935, 90 percent; 1940-44, 96 percent; 1945-46, 100 percent; 1947-50, preliminary estimates of complete coverage, based on a sample of the foundries]

YEAR	PRODUCTION			ORDERS BOOKED LESS CANCELLATIONS		
	Total	Railway specialties	Miscellaneous	Total	Railway specialties	Miscellaneous
		(1)	(1)		997,358	429,643
1920	(1)	(1)	(1)	997,358	429,643	567,715
1925	(1)	(1)	(1)	981,343	423,647	557,696
1930	901,872	368,690	623,182	884,438	338,199	551,234
1935	308,088	64,329	304,650	400,157	97,357	302,800
1940	797,947	290,255	507,692	816,919	266,418	550,501
1943	1,028,645	248,664	1,070,981	2,333,420	382,760	1,980,660
1944	1,843,386	338,007	1,505,370	1,914,294	322,630	1,591,664
1945	2,1484,957	2,311,833	2,173,124	2,529,912	352,382	1,177,530
1946	2,1,043,358	2,256,131	2,757,227	2,009,842	283,511	786,331
1947	2,1,203,504	2,341,987	2,861,517	2,1,330,081	449,432	880,649
1948	2,1,335,265	2,442,258	2,893,037	2,1,200,389	375,004	825,295
1949	2,805,297	2,232,976	2,632,321	2,638,726	311,207	523,519
1950	2,1,042,884	2,261,357	2,781,527	2,1,474,184	498,436	975,748

¹ Not available.

² Shipments beginning with last quarter of 1945.

³ Calculated from data on shipments and unfilled orders.

Source: Department of Commerce, Bureau of the Census. Monthly data published in Facts for Industry Series M22A.

No. 945.—MALLEABLE IRON CASTINGS—SHIPMENTS AND ORDERS BOOKED: 1925 TO 1950

[In short tons. Statistics represent coverage of approximately 90 percent for 1925-43. Thereafter coverage is complete and represents reports from 315 foundries]

YEAR	SHIPMENTS			NEW ORDERS LESS CANCELLATIONS		
	Total	To outside trades	For use by own company or by an affiliate or subsidiary, or parent company	Total	For outside trades	For use by own company or by an affiliate or subsidiary, or parent company
		(1)	(1)			
1925	794,174	(1)	(1)	750,761	(1)	(1)
1930	475,371	(1)	(1)	432,722	(1)	(1)
1935	455,208	(1)	(1)	452,611	(1)	(1)
1940	556,209	400,818	155,391	571,920	414,310	157,619
1942	746,008	590,804	155,204	858,102	703,167	155,935
1943	844,630	653,884	190,755	1,084,224	826,422	227,802
1944	878,233	610,588	258,645	969,483	685,511	283,972
1945	790,731	820,887	209,844	766,711	426,159	340,552
1946	752,028	452,355	299,073	(1)	483,368	(1)
1947	895,054	513,228	381,826	(1)	447,975	(1)
1948	933,265	525,212	408,053	(1)	460,189	(1)
1949	713,330	371,214	342,116	(1)	294,564	(1)
1950	920,502	612,192	408,310	(1)	646,307	(1)

¹ Not available.

Source: Department of Commerce, Bureau of the Census. Monthly data published in Facts for Industry Series M21B.

No. 946.—IRON AND STEEL, FINISHED ROLLED—PRODUCTION, EXPORTS, AND IMPORTS: 1876 TO 1949

[In short tons (2,000 pounds). Imports are imports for consumption beginning with 1933; general imports in earlier years. Blank spaces indicate no data available. See also *Historical Statistics*, series J 170 for data on total production.]

YEARLY AVERAGE OR YEAR (CALENDAR YEAR)	Total production, finished rolled products	RAILS			PLATES AND SHEETS			Merchant bar produc- tion ²
		Production	Exports	Imports	Production	Exports	Imports ¹	
1876-1880		1,020,426	4,974	67,033				
1881-1885		1,426,531	4,464	131,009				
1886-1890	5,911,600	1,915,511	8,148	56,748	3,707,104		8,975	
1891-1895	6,129,591	1,416,438	15,288	1,173	846,516	1,691	26,761	
1896-1900	9,142,067	2,107,734	260,420	2,637	1,639,544	34,714	5,344	
1901-1905	15,311,416	3,242,555	252,836	48,392	3,017,980	44,246	6,007	4,402,833
1906-1910	20,730,620	3,627,104	339,622	4,439	4,540,594	177,622	4,588	3,897,499
1911-1915	24,920,084	3,091,824	424,247	26,593	6,028,088	466,372	3,220	4,222,754
1916-1920	34,507,928	2,945,047	616,020	23,969	9,235,794	1,016,306	1,765	7,050,073
1921-1925	30,468,732	2,704,109	274,737	35,530	8,875,350	488,464	4,265	5,375,343
1926-1930	39,502,938	2,071,808	178,599	22,228	11,707,800	536,823	27,580	7,080,924
1931-1935	20,002,332	828,476	46,310	5,780	6,891,694	181,332	14,569	3,356,504
1936-1940	38,066,554	1,334,946	139,217	6,511	13,664,259	791,090	8,963	6,217,207
1941-1945	62,735,684	2,211,836	270,472	14,372	21,370,112	1,307,781	1,855	11,284,428
1933	18,743,296	466,252	46,459	7,171	6,962,648	121,902	10,643	2,973,656
1934	21,245,847	1,131,451	77,458	8,442	7,140,913	226,537	5,204	3,084,162
1935	26,840,298	700,921	57,873	6,337	9,734,073	263,738	13,141	4,767,187
1936	37,857,544	1,366,228	82,270	8,700	13,610,596	346,753	25,796	6,822,492
1937	41,178,266	1,619,228	166,964	9,204	15,721,261	885,109	10,096	6,755,012
1938	23,565,651	697,642	92,648	4,059	8,506,246	573,817	7,167	3,484,023
1939	30,067,553	1,312,647	66,183	8,718	13,931,919	729,306	1,606	6,138,350
1940	48,600,369	1,678,986	289,020	1,780	16,551,288	1,420,311	163	7,885,261
1941	62,324,187	1,027,851	169,542	7,072	20,203,071	1,084,180	125	10,978,698
1942	62,445,014	2,006,150	256,150	14,435	21,237,072	1,364,824	254	11,939,982
1943	63,292,673	2,126,996	811,861	7,384	22,543,040	1,631,567	468	11,858,047
1944	65,803,979	2,490,650	316,915	9,893	23,463,059	1,246,556	5,665	11,161,194
1945	59,811,669	2,417,520	327,883	32,474	10,314,316	1,341,777	2,751	10,484,218
1946	50,936,772	1,965,642	385,584	7,997	16,324,190	1,160,040	2,255	8,880,428
1947	66,202,144	2,441,170	500,582	10,287	23,325,500	1,272,770	1,843	10,781,625
1948	69,191,952	2,207,622	308,375	6,784	25,094,480	916,833	82,280	11,150,874
1949	69,882,387	1,901,020	238,196	1,100	23,470,886	1,100,914	43,360	9,054,099

YEARLY AVERAGE OR YEAR (CALENDAR YEAR)	Skelp production	WIRE RODS			STRUCTURAL SHAPES			All other finished rolled production ¹
		Production	Exports	Imports	Production	Exports	Imports	
1801-1805		709,238		38,980	3,481,467			2,772,234
1806-1800		1,018,997	18,124	20,257	772,149	65,742		3,603,643
1901-1905	1,608,314	1,781,114	18,308	20,597	1,348,246	62,320	1,14,432	1,415,004
1906-1910	1,868,915	2,303,540	15,011	17,248	2,169,356	135,616	12,440	2,323,590
1911-1915	2,611,342	1,933,601	84,252	13,198	2,739,058	287,708	7,114	3,392,518
1916-1920	3,123,005	3,336,170	162,072	4,188	3,340,000	376,744	3,143	5,477,820
1921-1925	3,345,985	2,836,325	31,408	4,803	3,199,711	294,177	31,317	4,031,870
1926-1930	3,752,372	1,348,573	35,089	16,096	4,489,127	311,101	160,219	6,322,836
1931-1935	1,248,507	2,065,158	25,456	12,505	1,631,680	66,574	45,874	3,980,346
1936-1940	2,282,301	3,424,361	97,413	12,251	3,317,884	237,283	49,232	7,825,593
1941-1945	3,100,884	4,754,339	148,351	482	5,062,009	287,706	6,278	14,962,077
1946	1,113,857	2,266,986	18,902	14,940	1,242,592	35,877	32,812	3,717,306
1947	1,264,043	1,930,617	26,580	11,936	1,506,045	60,003	28,020	4,508,016
1948	1,514,328	2,733,689	29,223	18,704	1,950,700	64,191	46,593	5,334,391
1949	2,415,304	3,857,626	30,057	21,180	3,245,346	98,143	68,074	7,030,863
1950	2,553,445	3,370,405	67,200	17,717	3,670,068	208,072	87,066	7,488,037
1951	1,403,640	2,361,630	24,067	5,914	2,082,685	142,822	44,379	5,032,208
1952	2,320,128	3,680,297	35,224	11,975	3,358,985	182,731	44,277	8,315,227
1953	2,700,000	4,351,848	320,621	4,465	4,232,346	554,644	850	11,251,640
1954	3,037,574	5,268,423	187,326	119	5,724,236	365,238	358	14,494,334
1955	2,900,741	4,682,017	145,251	57	5,816,321	229,787	106	13,923,622
1956	3,022,308	4,603,705	176,039	31	4,575,844	239,985	169	14,472,550
1957	3,049,682	4,616,298	123,804	2	4,676,481	235,592	28,017	16,816,609
1958	2,894,023	4,531,157	100,334	2,199	4,467,164	367,956	2,682	15,703,271
1959	2,634,848	4,520,280	62,365	6,052	4,387,064	449,219	874	12,323,711
1960	3,450,460	3,376,003	71,237	6,016	5,607,671	752,790	1,731	15,219,706
1961	8,617,703	5,430,603	33,148	6,013	5,455,523	409,166	66,830	15,635,147
1962	3,639,074	4,388,394	53,315	5,734	4,672,284	483,211	114,505	13,756,630

¹ Includes skelp beginning 1922.² Merchant bars include concrete reinforcement bars and, beginning 1934, certain miscellaneous bars previously included in "All other finished rolled production."³ Average for years 1887-90.⁴ Average for years 1902-05.⁵ Average for years 1892-95.⁶ Average for period July 1, 1897, to Dec. 31, 1900.⁷ Average for period July 1, 1903, to Dec. 31, 1905.⁸ Small structural forms not included in 1911.

No. 947.—IRON AND STEEL—AGGREGATE EXPORTS: 1890 TO 1950

[Covers products listed in table 948; excludes data for highly elaborated products of iron and steel. Value figures through 1921 exclude, and those beginning 1922 include data for small items for which quantity figures are not available. Ferromanganese data included for all years. Data for steam and hot-water heating boilers and radiators, formerly classified as heavy iron and steel products, excluded beginning with 1922]

[Quantities in thousands of short tons (2,000 pounds); values in thousands of dollars]

YEAR	Quantity	Value	YEAR	Quantity	Value	YEAR	Quantity	Value
1890	58		1927	2,445	160,600	1939	6,814	236,947
1895	100		1928	3,209	179,881	1940	11,876	524,420
1900	1,292	42,518	1929	3,402	200,203	1941	8,029	506,901
1905	1,131	33,813	1930	2,220	139,039	1942	7,387	588,938
1910	1,723	63,436	1931	1,085	63,226	1943	7,245	621,847
1915	3,957	140,998	1932	666	28,857	1944	6,148	500,178
1920	5,527	458,376	1933	1,502	45,584	1945	5,203	461,147
1922	2,235	136,334	1934	3,150	88,691	1946	5,149	449,843
1923	2,251	167,247	1935	3,431	88,414	1947	6,094	830,655
1924	2,023	150,404	1936	3,536	112,602	1948	4,885	659,779
1925	1,974	144,262	1937	8,488	302,360	1949	5,146	714,780
1926	2,427	174,145	1938	5,766	185,432	1950	3,251	465,415

No. 948.—IRON AND STEEL—EXPORTS, BY KIND: 1947 TO 1950

ARTICLE	QUANTITY (TONS OF 2,000 LBS.)				VALUE (\$1,000)			
	1947	1948 ¹	1949 ¹	1950 ¹	1947	1948 ¹	1949 ¹	1950 ¹
Total	6,993,675	4,885,029	5,146,023	5,251,030	830,655	659,779	714,780	465,415
Pig iron, not including ferro-alloys	10,940	7,032	81,309	6,813	316	217	3,354	322
Ferromanganese and spiegelreisen	20,473	19,747	6,027	942	2,824	2,903	1,360	161
Other ferro-alloys	40,295	64,222	11,185	46,173	3,365	7,330	3,680	2,839
Scrap	194,081	243,690	207,388	217,409	9,854	12,547	7,293	6,024
Ingots, blooms, sheet bars, skelp, etc	553,617	277,261	374,617	178,193	35,945	20,108	30,014	13,683
Iron and steel bars and alloy steel bars	1,183,252	542,934	441,759	118,840	118,501	60,623	50,650	15,187
Wire rods	71,237	38,143	53,315	6,264	7,117	3,764	5,019	5,019
Galvanized sheets	74,439	62,738	85,594	106,382	10,511	8,212	13,071	16,663
Plates, iron and steel	562,480	347,698	417,097	112,224	47,840	33,448	41,543	12,111
Black steel sheets	568,760	416,481	551,246	503,408	55,166	57,306	74,988	68,278
Black iron sheets	30,215	17,773	22,650	17,046	3,754	2,008	2,039	2,087
Hoop, band, and strip steel	196,765	128,577	139,752	92,880	28,471	19,975	21,815	16,152
Tin plate, terneplate, etc.	620,198	613,784	605,063	557,423	56,918	97,103	101,842	88,637
Structural shapes, plain material	463,375	202,176	302,700	152,570	32,519	23,388	26,680	13,800
Structural materials, fabricated	204,204	223,307	205,723	129,982	47,308	46,535	46,573	31,626
Tanks, complete and knocked down	95,234	92,448	106,008	80,147	15,170	16,327	19,037	8,441
Metal lath	5,717	7,238	5,116	3,000	1,217	1,661	1,260	805
Steel rails	500,582	308,375	42,644	55,969	51,732	22,822	3,144	3,245
Rail fastenings, switches, frogs, etc.	157,810	71,756	34,352	35,270	15,817	9,650	5,828	4,924
Boiler tubes	69,830	38,455	47,169	15,541	13,267	7,784	9,799	3,760
Casing and oil-line pipe	333,377	371,914	492,920	452,065	40,122	48,627	72,067	61,850
Seamless black pipe, except casing and oil-line	18,717	21,602	25,782	17,328	2,856	3,377	4,252	3,113
Black and galvanized welded pipe	159,095	103,321	200,301	124,870	22,345	17,045	33,537	19,053
Cast-iron pipe and fittings	49,589	39,284	58,745	27,602	5,705	5,635	7,774	8,828
Malleable-iron screwed pipe fittings	5,164	4,490	5,522	4,105	2,888	3,327	4,038	2,744
All other iron and steel pipe and fittings, n. e. s.	101,850	68,938	55,291	30,820	30,914	29,076	26,917	15,840
Barbed-wire and woven-wire fencing	91,233	51,410	92,055	17,410	14,076	8,786	15,187	2,084
Plain and galvanized wire	185,371	127,141	130,730	37,050	31,522	21,245	21,115	7,238
Woven-wire screen cloth	5,985	5,738	4,298	2,331	4,828	4,294	3,487	1,809
Wire rope and wire strand	30,630	13,048	12,915	11,682	10,319	4,846	5,286	4,650
Electric welding rods	14,842	15,834	15,945	11,855	3,362	3,489	4,161	3,431
Wire, other, and manufactures thereof	52,602	41,518	20,246	12,625	15,152	12,245	6,278	4,128
Wire nails	25,754	19,662	25,910	3,097	3,016	3,358	4,188	555
Nails other than wire, tacks, staples	15,996	14,914	11,572	3,717	4,083	4,384	3,178	1,563
Horseshoes	897	582	418	340	170	113	90	63
Bolts, nuts, rivets, and washers ²	48,223	54,311	26,129	16,213	15,488	16,908	12,045	8,596
Car wheels and axles	88,802	88,714	62,066	25,837	10,342	6,134	10,354	4,187
Iron castings	54,050	46,147	40,278	39,708	5,717	5,722	6,028	5,443
Steel castings	3,857	4,838	3,834	3,653	1,439	2,055	1,406	1,293
Forgings	35,819	27,063	23,748	18,296	6,890	5,621	4,792	3,707

¹ Effective Jan. 1948, includes shipments under Army Civilian Supply Program.

² Except railroad.

NO. 949.—IRON AND STEEL—AVERAGE ANNUAL PRICES, BY CLASS OR KIND: 1891 TO 1950

[Prices of pig iron, rails, and billets, and wire rods in dollars per long ton (2,240 pounds); other prices in dollars per 100 pounds]

YEAR	PIG IRON			Open hearth rails at mills in Pennsylvania ¹	Open hearth steel billets, Pittsburgh ²	Wire rods, Pittsburgh ³	Merchant bars, Pittsburgh ⁴	Iron bars (best refined), Pittsburgh ⁴	Tank plates, Pittsburgh ⁴	Structural shapes, Pittsburgh ⁵	Composite finished steel
	Basic, The Val- leys	South- ern, No. 2, Cincin- nati ⁶	Local, Chi- cago ¹								
1891-1895		11.74	12.80	27.27	20.89			1.46			
1896-1900		12.50	14.30	24.96	21.08			1.46	1.50	1.61	1.63
1901-1905		15.80	17.50	27.87	25.76			1.47	1.77	1.80	1.63
1906-1910		16.87	17.66	19.42	28.00	26.80		1.47	1.75	1.57	1.53
1911-1916		13.66	14.10	14.72	28.00	22.43		1.31	1.47	1.32	1.32
1916-1920	32.22	34.17	33.20	44.94	51.78	51.77	2.98	3.82	3.73	2.94	3.45
1921-1925	22.31	25.23	24.03	42.76	36.74	40.24	2.03	3.97	2.02	2.05	2.42
1926-1930	17.82	20.05	19.67	43.00	33.49	41.68	1.87	4.44	1.84	1.85	2.22
1931-1935	16.19	16.56	17.31	39.49	27.25	36.55	1.60	3.48	1.68	1.69	1.96
1936-1940	21.48	22.01	21.98	40.04	33.92	43.02	2.21	4.35	2.09	2.09	2.35
1941-1945	23.70	24.61	24.20	40.40	34.00	45.21	2.16	6.37	2.12	2.10	2.31
1946	13.98	13.84	15.87	42.44	26.52	37.00	1.57	3.35	1.57	1.57	1.87
1947	15.24	16.31	16.47	39.26	26.00	35.15	1.64	3.38	1.61	1.68	1.85
1948	17.69	18.80	18.19	36.37	27.10	37.37	1.81	3.50	1.78	1.78	2.05
1949	18.17	19.34	18.68	36.37	27.26	38.21	1.81	3.50	1.80	1.80	2.07
1950	19.10	19.99	19.60	36.59	29.68	39.12	1.95	3.70	1.85	1.85	2.12
1951	22.99	23.20	23.49	41.86	36.45	46.27	2.40	4.50	2.21	2.21	2.54
1952	21.70	22.18	22.20	41.77	35.45	44.93	2.35	4.50	2.17	2.17	2.40
1953	21.09	21.64	21.63	40.00	34.00	43.00	2.19	4.40	2.10	2.10	2.81
1954	22.53	23.06	23.03	40.00	34.00	44.80	2.15	4.64	2.10	2.10	2.27
1955	23.50	24.02	24.00	40.00	34.00	44.80	2.15	5.00	2.10	2.10	2.40
1956	23.50	24.52	24.00	40.00	34.00	44.80	2.15	5.00	2.10	2.10	2.40
1957	23.50	24.25	24.00	40.00	34.00	44.80	2.15	5.14	2.10	2.10	2.40
1958	23.50	24.81	24.00	40.00	34.00	44.80	2.15	5.85	2.10	2.10	2.40
1959	24.52	25.44	25.02	42.44	34.00	46.85	2.21	5.85	2.21	2.10	2.46
1960	27.14	27.61	27.64	43.67	35.21	42.29	2.47	6.32	2.47	2.32	2.60
1961	34.78	35.88	34.80	\$ 2.00	44.38	\$ 2.73	2.73	7.12	2.80	2.63	3.01
1962	41.62	\$ 49.47	41.77	\$ 2.83	50.40	\$ 3.44	3.13	(10)	3.19	3.00	3.43
1963	46.00	41.46.08	46.50	\$ 3.21	53.66	\$ 3.58	3.37	(10)	3.43	3.26	3.71
1964	47.06	55.58	47.58	\$ 3.42	53.25	\$ 3.87	3.47	(10)	3.52	3.42	3.86

¹ At furnace after 1907.

² Bessemer rails prior to Oct. 22, 1921.

³ Bessemer billets prior to 1927.

⁴ Average for 1898-1900.

⁵ Average for week of Dec. 28, 1948.

⁶ Average for week of Jan. 2, 1951.

² Bessemer rails prior to Oct. 22, 1921.

⁴ Muck iron in 1891.

⁷ Average for 1919-1920.

¹⁰ Not available.

⁵ Beams prior to Mar. 19, 1929.

⁶ Dollars per 100 pounds.

¹¹ Average for week of Dec. 27, 1949.

Source: Steel and The Iron Age, annual review issues; and American Iron and Steel Institute, annual report.

NO. 950.—ALUMINUM—SHIPMENTS OF WROUGHT PRODUCTS AND CASTINGS: 1943 TO 1950

[In thousands of pounds]

CLASS	1943	1944	1945	1946	1947	1948	1949	1950
Castings:								
Sand	304,118	321,200	213,892	160,845	155,112	139,781	106,825	154,013
Permanent mold	89,675	106,200	108,250	153,138	174,515	161,334	102,908	143,821
Die	65,742	84,200	70,667	73,702	110,538	118,738	87,812	144,661
All other	(1)	2,800	2,189	1,026	1,831	4,637	6,864	10,115
Plate, sheet and strip ²					866,932	1,111,159	1,268,297	790,025
Rolled structural shapes, rod bar and wire ²	(1)	(1)	(1)	130,638	157,379	182,091	203,650	209,780
Extruded shapes, tube blooms and tubing ²				126,078	123,048	171,944	149,995	255,231
Powder, flake and paste ²				17,151	16,566	16,954	14,476	22,497

¹ Not available.

² Data represent producer's net shipments consisting of total shipments less shipments to other metal mills for further fabrication into other forms of wrought products.

Source: Department of Commerce, Bureau of the Census; Facts for Industry Series M24G and M24E.

No. 951.—MAGNESIUM—SHIPMENTS OF WROUGHT PRODUCTS AND CASTINGS:
1943 TO 1950

[Thousands of pounds]

CLASS	1943	1944	1945	1946	1947	1948	1949	1950
Total	1 146,262	1 213,418	1 189,770	1 115,114	1 12,500	1 14,079	1 17,628	1 25,124
Castings:								
Sand	59,123	75,221	42,471	7,149	6,404			
Permanent mold	81,337	123,904	39,592	532	729	2 8,214	2 9,304	1 12,314
Die	2,866	2,362	1,689	791	560			
Sheet, strip, and plate	1,080	2,308	2,900	3,411	1,876			
Extrusions	1,029	9,198				2 5,865	2 8,264	2 12,810
Forgings	227	425	3,118	3,231	2,931			

¹ Excludes extruded sheet stock, forging stock, powder, and sticks.

² Combined to avoid disclosure of individual company operations.

³ Represents extrusions, including forging stock; forgings data not available.

Source: Department of Commerce, Bureau of the Census; Facts for Industry Series, M24G and M24E.

No. 952.—COPPER AND COPPER-BASE ALLOY ROLLED, DRAWN AND EXTRUDED
PRODUCTS—SHIPMENTS, BY KIND: 1939 AND 1947

[In short tons (2,000 pounds). Covers shipments and interplant transfers of copper and copper-base alloy products, including production of these items consumed by producing plant in manufacturing fabricated products. These figures, therefore, represent gross shipments of copper and copper-base alloy products. 1939 figures for copper-base alloys refer to brass and bronze products only; figures for other copper-base alloys excluded and to this extent data not comparable with 1947. Data on shipments, interplant transfers, and produced and consumed in same plant have been combined since data are not comparable for each of these measures separately. Some establishments which reported rolling mill and fabricating operations at same location in 1939 treated each of these operations as separate establishments in 1947. For this reason some of tonnage reported as produced and consumed in same establishment in 1939 was considered as interplant transfers in 1947.]

PRODUCT	1939	1947
Copper and copper-base alloy wire and cable, bare and tinned	381,666	911,207
Unalloyed copper	336,603	835,927
Copper-base alloy	45,063	75,280
Other copper and copper-base alloy rolled, drawn and extruded products	842,027	1,526,783
Unalloyed copper:		
Rod and bar	1 204,903	477,106
Plate, sheet, and strip	107,707	165,438
Pipe and tube	72,795	185,010
Copper-base alloys:		
Rod	1 135,156	242,542
Shapes, drawn, and extruded	2 6,357	23,611
Plate, sheet, and strip	221,224	329,407
Plate and tube	93,885	87,019

¹ Excludes tonnage of rods reported as produced and consumed in same establishment, most of which was consumed in production of wire, rather than fabricated products.

² Includes extruded shapes only.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

SELECTED METAL PRODUCTS

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No. 953.—SELECTED METAL PRODUCTS—FACTORY SHIPMENTS: 1949 AND 1950
 [Leaders indicate no data available]

PRODUCT AND UNIT OF MEASURE	1949		1950	
	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
Containers and closures:				
Steel shipping barrels and drums.....number	31,790,472		36,778,806	
Steel packages, kegs, and pails.....do	55,428,143		69,157,839	
Metal cans.....short tons of steel consumed	3,276,918		3,890,110	
Food.....do	2,261,470		2,549,242	
Non-food.....do	1,015,448		1,340,868	
Crowns.....gross	269,397,107		343,376,587	
Closures (except crowns).....1,000				
Commercial.....do	9,082,683		14,222,912	
Home canning.....do				
Heating and cooking equipment:				
Domestic cooking stoves and ranges.....number	3,378,933	302,878	4,985,824	470,798
Electric.....do	903,806	111,936	1,601,361	199,078
Gas, including bungalow.....do	2,032,216	160,524	2,941,536	240,247
Liquid fuel.....do	185,939	7,501	190,776	7,377
Coal and wood.....do	169,928	8,153	150,976	7,601
Combination.....do	87,044	14,764	101,175	16,495
Domestic heating stoves.....do	3,602,771	70,006	4,192,744	87,397
Gas.....do	1,441,335	22,834	1,993,317	34,280
Liquid fuel.....do	1,265,805	36,644	1,311,720	44,158
Coal and wood.....do	955,571	11,128	887,701	8,959
Water heaters.....do	2,391,359	117,226	3,719,241	176,975
Electric.....do	510,622	32,963	809,730	51,872
Non-electric.....do	1,874,737	84,263	2,909,502	125,103
Direct-fired.....do	1,732,363	77,118	2,640,476	115,199
Indirect.....do	142,374	7,145	269,026	9,904
Range boilers.....do	420,486	6,086	503,807	7,026
Cast iron boilers.....1,000 pounds	206,296	40,525	267,451	54,562
Cast iron radiators and convectors.....1,000 sq. ft. heating surf.	35,888	10,036	48,117	26,279
Oil burners.....number	593,010		913,743	
Residential.....do	569,445		870,016	
Non-residential.....do	24,465		34,727	
Mechanical stokers.....do	85,260		26,037	
Warm air furnaces.....do	719,972	130,648	1,063,189	204,222
Forced air.....do	449,206	98,824	831,762	173,311
Gravity air.....do	270,766	31,724	261,427	30,911
Construction machinery:				
Power cranes and shovels.....do	4,114	89,204	5,108	109,006
Dozers.....do	15,414	23,640	24,044	36,540
Tracklaying tractors.....do	42,749	196,622	43,590	223,042
Plumbing fixtures:				
Bathtubs, cast iron and steel.....do	1,475,743		2,282,907	
Lavatories.....do	2,504,791		3,408,035	
Vitreous china.....do	967,882		1,408,798	
Cast iron and steel.....do	1,530,006		2,000,137	
Kitchen sinks.....do	2,120,629		2,632,339	
Vitreous china.....do	13,649		17,661	
Cast iron.....do	1,123,557		1,416,510	
Steel.....do	983,523		1,200,159	
Transportation equipment:				
Truck trailers.....do	34,273	110,098	65,608	228,441
Complete trailers.....do	32,747		63,310	
Trailer chassis only.....do	1,526		2,344	
Complete aircraft (civilian).....do	3,545	121,447	3,520	100,099
Aircraft engines (civilian).....do	3,982	14,237	4,315	20,058
Domestic water systems.....do	527,904	41,876	722,647	60,204

¹ Includes a small quantity of other metals and glazed earthenware.

Source: Department of Commerce, Bureau of Census; Facts for Industry Series. Data for power cranes and shovels from Power Crane and Shovel Association. Data on electric stoves and electric water heaters from National Electric Manufacturers' Association.

No. 954.—MACHINERY—VALUE OF PRINCIPAL CLASSES MANUFACTURED: 1929 TO 1947

[In thousands of dollars. Figures represent total value of production (or shipments) of specified commodities reported by all establishments producing these commodities. Data for selected groups of commodities only are shown. For 1929 and 1947, value represents value of shipments; for other years, value of production]

CLASS	1929	1933	1935	1937	1939	1947
Agricultural machinery (except tractors) ¹	278,271	(2)	139,098	226,274	182,683	758,326
Automatic merchandising machines	8,821	5,472	5,989	8,978	6,154	14,535
Bakery machinery and equipment	21,730	7,332	11,869	18,120	17,583	39,441
Blowers and fans	25,243	6,955	15,830	26,282	324,501	3 129,913
Bottlers' machinery (except dairy)	11,082	9,157	8,264	21,135	11,959	34,442
Cash registers, adding, calculating, and card tabulating machines and typewriters	151,583	46,577	4 83,217	118,552	104,676	3 441,972
Cement-making machinery and equipment	4,887	545	1,646	2,066	3,035	8,111
Clay-working machinery (brick, pottery, etc.)	4,402	591	1,071	2,727	2,059	6,083
Commercial laundry, dry-cleaning, and pressing machinery	5 36,110	5 7,993	5 14,241	21,960	20,727	93,078
Concrete products machinery and equipment	4,132	224	1,809	4,053	1,739	17,074
Conveyors and conveying systems	48,537	11,413	22,045	33,911	29,773	142,573
Cotton-ginning machinery	11,760	2,165	4,892	11,300	5,115	20,433
Elevators, escalators, and dumb-waiters	44,044	8,322	9,110	21,235	16,244	82,345
Engines (steam and internal-combustion) and turbines:						
Steam engines	(2)	(2)	(2)	1,738	1,155	2,183
Steam turbines	(2)	(2)	(2)	16,214	15,430	15,722
Hydraulic turbines	(2)	(2)	(2)	(2)	5,885	10,740
Internal-combustion engines	(2)	(2)	(2)	91,843	90,817	423,040
Flour-mill and grain-mill machinery	8,286	2,354	5,167	6,916	6,087	25,437
Foundry machinery ²	10,039	1,957	5,585	9,156	6,804	34,431
Glass-making machinery	3,088	1,895	3,543	4,729	4,450	21,099
Locomotives	82,900	2,748	21,735	65,163	42,667	302,251
Machine tools	147,316	16,457	64,515	162,046	166,649	322,356
Motor vehicles:						
Passenger cars, complete	(2)	(2)	(2)	(2)	1,709,603	4,080,311
Trucks, truck tractors, truck chassis, motor coaches, and fire department vehicles	(2)	(2)	(2)	(2)	462,517	1,804,689
Oil-field machinery and tools	(2)	(2)	(2)	121,881	84,153	262,039
Petroleum refinery machinery and equipment	30,210	4,807	7,931	14,816	16,360	22,478
Printing trades machinery and equipment	(2)	(2)	(2)	74,013	52,583	191,282
Pulp and paper industries machinery	(2)	(2)	(2)	41,341	31,227	134,713
Pumps, pumping equipment, and air compressors:						
Reciprocating pumps	(2)	(2)	(2)	8,160	5,479	13,010
Centrifugal pumps	(2)	(2)	(2)	19,539	18,630	74,904
Rotary pumps	(2)	(2)	(2)	7,068	3,480	27,724
Turbine pumps	(2)	(2)	(2)	(2)	(2)	31,015
Air compressors	(2)	(2)	(2)	28,325	21,233	101,656
Rolling mill machinery and equipment	(2)	(2)	(2)	52,139	34,605	90,074
Rubber-working machinery	13,552	8,347	4,883	12,271	13,685	40,445
Scales and balances	25,385	6,805	12,191	17,169	13,544	40,202
Sewing machines (domestic and industrial)	37,378	10,274	18,250	24,593	20,304	63,043
Shoemaking and repairing machinery	12,317	8,130	10,245	10,903	10,003	23,708
Stokers, mechanical	14,054	5,620	11,537	22,176	20,275	18,302
Sugar plant machinery	5,046	704	1,260	4,344	2,835	10,040
Textile machinery and parts	116,525	57,802	64,899	3 100,690	85,001	379,988
Tobacco manufacturing machinery and equipment	5,018	1,106	1,693	3,670	3,337	20,146
Tractors (all types)	214,721	(2)	137,990	268,855	203,865	744,272
Vacuum cleaners (household type)	35,108	14,411	24,191	86,029	44,100	3 133,107
Washing machines and other domestic laundry equipment	79,011	42,422	50,513	73,291	7 66,282	7 433,955

¹ From annual survey, Farm Machines and Equipment, series M35A.

² No comparable data.

³ Not strictly comparable with figures for earlier years.

⁴ Includes postal meters.

⁵ Excludes dry-cleaning machinery.

⁶ Excludes patterns and molds (of wood, metal, etc.).

⁷ Includes parts and attachments.

Source: Department of Commerce, Bureau of the Census; Census of Manufactures reports.

No. 955.—ELECTRICAL MACHINERY—VALUE OF SELECTED PRODUCTS: 1933 TO 1947

[In thousands of dollars. Figures represent total value of production (or shipments) of specified commodities reported by all establishments producing these commodities. Data for selected groups of commodities only are shown. For 1947, value represents value of shipments; for other years, value of production]

PRODUCT	1933	1935	1937	1939	1947
Batteries, storage and primary (dry and wet):					
Storage batteries.....	52,129	65,901	78,250	81,122	293,358
Dry batteries (cells).....	12,929	15,307	20,080	25,900	73,073
Wet primary batteries and parts and supplies for dry batteries and wet primary batteries.....	2,386	4,510	8,947	4,195	5,021
Carbon and graphite products:					
Brushes (carbon, graphite, metal-graphite and metal-impregnated).....	2,282	4,150	6,511	2,4,654	2,16,243
Other carbon and graphite products (including electrodes).....	6,715	8,820	13,921	2,13,931	2,52,361
Electric hearing aids.....	(*)	(*)	{ 94,754	{ 3,671	{ 16,868
Electrical appliances					
Fans (direct motor-driven).....			{ 15,505	{ 8,286	{ 48,656
Water heaters (for permanent installation).....			{ 5,605	{ 3,453	{ 59,884
Mixers, whippers, and juicers.....			{ 7,372	{ 6,546	{ 24,565
Commercial cooking apparatus.....			{ 2,765	{ 3,334	{ 13,478
Other electrical appliances.....			{ 63,447	{ 2,61,730	{ 2,401,754
Electrical measuring instrument:					
Electrical integrating instruments.....			{ 23,636	{ 19,233	{ 59,046
Other electrical measuring instruments.....			{ 15,300	{ 17,912	{ 98,407
Electric lamps:					
Incandescent-filament.....			{ 62,703	{ 74,304	{ 73,119
Other.....	49,849	2,072	{ 3,588	{ 6,185	{ 49,086
Electro-therapeutic apparatus.....			(*)	(*)	5,823
Engine electrical equipment:					
Battery charging generators (not including automotive starter-motors).....			{ 22,359	{ 14,949	{ 50,422
Ignition apparatus for internal-combustion engines.....	23,432	40,528	{ 58,201	{ 69,727	{ 149,110
Fuse and fuse equipment under 2,300 volts (except power distribution cut-outs).....	4,825	5,013	7,117	6,879	20,098
Industrial electrical control equipment (except railway and motor-vehicle controllers).....	15,165	28,230	47,388	46,039	189,910
Insulated wire and cable:					
Magnet wire.....	65,637	122,226	245,342	204,430	895,128
Armored cable or conductor.....	10,141	16,890	29,805	25,431	381,826
Weatherproof and slow burning.....	4,411	6,845	8,917	12,085	23,914
Other.....	51,085	{ 12,344	{ 22,689	{ 20,856	{ 76,256
{ 86,138	{ 183,940	{ 145,158	{ 22,685	{ 413,133	
Radios, radio tubes and phonographs:					
Household radio receivers, television sets, radio phonographs, phonographs, and record players.....					
Home radio receivers, socket powered.....					
Radio-phonograph combinations (except television sets).....					
Phonographs and record players.....					
Television sets.....					
Automobile radios (broadcast receivers only).....					
Other.....					
Electronic type components for communications and industrial electronic controls.....					
Radio receiving type tubes (except ballast tubes, voltage regulators and indicators).....					
Transmitting and industrial type tubes except X-ray.....					
Phonograph records.....					
Switchboard apparatus (circuit breakers, panelboards, switchboards and switches):					
Panelboards and distribution boards.....					
Knife, power and other switches.....					
Circuit breakers.....					
Power switchboards.....					
Power switching equipment, power connectors, distribution cut outs and fuse links for 2,300 volts and over A. C. service.....					
{ 5,884	{ 16,602	{ 14,451	{ 34,755		
21,180	43,584	115,883	94,496	631,919	
13,094	28,881	83,613	65,064	326,777	
38,048	63,559	109,529	2,103,601	2,875,663	
X-ray equipment and X-ray tubes.....	(*)	(*)	(*)	12,619	49,569

¹ Includes parts and supplies.

² Not strictly comparable with data for earlier years.

³ Not available.

⁴ Includes X-ray tubes; for later years data are included in nonradio electronic tubes and X-ray tubes in "X-ray and therapeutic apparatus and electronic tubes" industry.

⁵ Includes television sets and facsimile sets.

⁶ Includes radio transformers.

Source: Department of Commerce, Bureau of the Census; Census of Manufactures reports.

No. 956.—FARM MACHINES AND EQUIPMENT (COMPLETE UNITS, ATTACHMENTS, AND PARTS)—SALES, BY CLASS: 1945 TO 1949

[In thousands of dollars. Excludes data for tractors for nonfarm use. Revised to exclude miscellaneous farm equipment previously included. Beginning 1947, represents shipments, which do not differ significantly from sales]

CLASS	1945	1946	1947	1948	1949
Total	700,177	850,478	1,294,686	1,733,746	1,814,790
Farm machines and equipment (complete units)	400,504	622,674	975,988	1,334,345	1,421,599
Attachments and parts	209,673	227,804	318,698	399,401	393,191
COMPLETE UNITS, ATTACHMENTS, AND PARTS					
Plows and listers	40,163	50,694	83,529	100,805	90,594
Harrows, rollers, pulverizers, and stalk cutters	22,598	36,634	57,423	80,954	73,763
Planting, seeding, and fertilizing machinery	43,286	53,838	73,877	109,505	114,755
Cultivators and weeders	33,567	33,942	50,363	80,069	70,169
Sprayers and dusters	14,715	20,280	30,556	44,458	31,732
Harvesting machinery	99,361	113,725	191,570	247,820	200,555
Haying machinery	49,456	59,855	94,865	153,395	151,698
Machines for preparing crops for market or for use	25,230	36,046	42,013	42,216	35,251
Farm elevators and blowers	6,144	10,595	16,389	25,311	32,350
Tractors for farm use	202,999	316,523	536,360	742,551	821,763
Farm wagons, trucks, and other farm transportation equipment	15,864	28,470	36,014	38,918	24,208
Farm dairy machines and equipment	46,752	41,553	31,415	23,448	20,087
Barn equipment	7,087	9,554	11,892	13,207	10,050
Barnyard equipment	8,087	8,844	8,808	10,015	13,498
Farm poultry equipment	24,868	23,925	20,602	20,379	25,345

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M35A.

No. 957.—FARM MACHINES AND EQUIPMENT, ATTACHMENTS, AND PARTS—SALES: 1929 to 1949

[In thousands of dollars. Includes data for tractors for nonfarm use; for figures excluding these data, see table 956. Survey suspended 1932-34. Beginning 1947, represents shipments, which do not differ significantly from sales]

YEAR	Total	Farm machines and equipment	Attachments and parts	YEAR	Total	Farm machines and equipment	Attachments and parts
1929	402,002	411,681	81,311	1941	638,605	506,170	132,435
1930	417,926	340,276	77,650	1942	622,528	414,536	207,982
1931	208,575	157,745	50,830	1943	602,290	344,854	257,436
1935	277,089	218,462	58,627	1944	1,026,207	694,880	331,327
1936							
1936	875,128	301,683	73,445	1945	996,557	697,422	209,136
1937	485,130	405,597	79,533	1946	983,515	699,965	283,560
1938	404,047	316,886	87,161	1947	1,502,598	1,100,592	402,006
1939	386,549	300,286	86,263	1948	1,901,987	1,475,998	485,080
1940	402,415	360,963	101,452	1949	2,051,876	1,574,361	477,516

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M35A.

TRACTORS

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No. 958.—TRACTORS, ATTACHMENTS, AND PARTS (FARM AND NONFARM)—SALES,
BY KIND: 1944 TO 1950

[Value in thousands of dollars. Beginning 1947, represents shipments, which do not differ significantly from sales]

YEAR AND TYPE OF PRODUCT	Total value	COMPLETE UNITS				ATTACHMENTS AND PARTS	
		Farm		Nonfarm		Farm value	Non- farm value
		Number	Value	Number	Value		
Total:							
1944	655,938	258,117	170,153	53,877	262,882	76,959	145,904
1945	559,378	263,164	177,578	52,488	206,917	85,421	89,462
1946	449,561	364,725	221,840	32,119	77,292	94,684	55,745
1947	744,272	590,963	392,212	47,488	124,604	144,148	83,308
1948	970,792	697,633	547,704	41,053	141,658	194,847	86,588
1949	1,064,476	1,686,416	1,628,514	1,34,228	1,164,367	186,704	84,891
1950	1,100,943	1,663,031	1,620,072	1,35,000	1,199,448	173,378	108,045
Wheel type:							
1944	236,395	235,453	157,519	14,502	12,594	59,007	7,275
1945	250,089	224,985	153,170	18,707	15,726	74,695	6,478
1946	279,470	243,271	180,363	12,087	11,909	80,360	6,838
1947	475,086	413,783	321,653	14,882	17,682	117,586	8,105
1948	658,879	510,847	468,083	18,845	29,215	148,975	12,606
1949	723,129	1,534,946	1,543,005	1,10,422	1,29,425	141,921	8,778
1950	708,046	1,490,226	1,534,263	1,9,378	1,38,921	124,934	9,328
Tracklaying type:							
1944	416,137	6,221	10,415	38,966	250,168	16,866	138,688
1945	303,260	11,140	20,974	32,849	191,033	8,400	82,862
1946	142,180	8,898	18,118	17,387	64,817	10,569	48,646
1947	225,256	11,630	28,332	25,904	105,998	16,281	74,645
1948	288,920	17,365	49,569	22,208	112,488	32,941	73,982
1949	311,114	20,043	46,481	23,806	134,942	35,578	76,113
1950	360,437	18,978	62,960	25,622	160,527	38,233	98,717
Garden type:							
1944	3,400	16,443	2,219	409	70	1,086	31
1945	6,040	27,030	3,434	932	183	2,326	122
1946	27,941	112,556	23,359	2,685	566	3,755	261
1947	43,930	165,550	32,227	8,702	924	10,281	498
1948	42,983	169,421	30,052	(2)	(2)	12,931	(2)
1949	30,238	131,427	21,028	(2)	(2)	9,205	(2)
1950	32,460	163,827	22,240	(2)	(2)	10,211	(2)

¹ Data for small number of nonfarm tractors included with "Farm."² Included with "Farm."

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M35A.

No. 959.—MACHINE TOOLS—SHIPMENTS, BY MAJOR TYPES: 1947, 1948, and 1949

[Includes light type machine tools, particularly in drilling machines, lathes, grinding and polishing machines, and milling machines. Excludes machine tools specifically designed for home workshops, model makers, garages, and service shops]

MAJOR TYPE	1947		1948		1949	
	Number	Value (\$1,000)	Number	Value (\$1,000)	Number	Value (\$1,000)
Total		322,856		277,521		241,370
Boring machines	1,444	25,825	1,268	24,098	1,212	29,430
Broaching machines	532	4,956	343	3,779	290	3,411
Drilling machines	(1)	33,517	10,125	32,816	6,305	25,271
Gear cutting and finishing machines	1,682	17,719	1,307	16,407	1,095	14,281
Grinding and polishing machines (except gear tooth grinding, honing, lapping, and buffing)	(1)	56,364	98,702	47,294	64,257	45,660
Lathes	(1)	92,908	29,322	81,106	18,631	62,289
Milling machines	7,504	35,278	6,064	34,914	4,397	31,400
Planers	152	4,018	157	4,828	99	3,699
Shapers (except gear shapers)	1,787	6,880	1,369	5,826	6,666	2,831
All other machine tools	(1)	44,891	26,463			23,148

¹ Not available.

Source: Department of Commerce, Bureau of the Census. Published in part in Facts for Industry Series M34A.

No. 960.—MOTION-PICTURE PRODUCTION—SUMMARY: 1921 TO 1947
 [Money figures in thousands of dollars]

YEAR, TYPE OF WORK, AND DIVISION	Number of establish- ments	ALL EMPLOYEES		Total expenses other than salaries and wages	Total cost of work done during the year
		Number (average for the year)	Salaries and wages, total		
UNITED STATES					
1921	127	10,650	\$37,603	(1)	\$77,397
1923	97	9,904	38,425	(1)	86,418
1925	132	11,518	49,017	\$44,619	93,536
1927	142	16,013	74,936	59,407	134,343
1929	142	10,602	35,028	99,074	184,102
1931	140	14,839	70,637	(1)	154,436
1933	92	19,037	71,344	47,909	110,343
1935	129	27,592	104,430	57,495	161,865
1937	83	32,398	130,551	58,190	197,741
1939	178	35,345	142,543	73,167	215,700
1947	277	34,790	293,046	167,097	460,143
TYPE OF WORK, 1947					
Theatrical-film producers	100	27,549	261,276	121,806	383,082
Nontheatrical-film producers	127	2,445	8,740	9,613	18,359
Laboratories and other service organizations	50	4,805	23,024	35,678	58,702
DIVISION, 1947					
New England	4	17	50	112	162
Middle Atlantic	79	3,701	15,549	20,643	46,192
East North Central	28	1,219	4,216	3,435	7,651
West North Central	10	181	495	1,042	1,537
South Atlantic	4	43	197	483	630
South Central	7	88	204	146	350
West	145	29,550	272,325	132,286	404,621
Los Angeles Metropolitan Area	130	29,393	271,974	131,206	403,180
Other West	15	157	361	1,080	1,441

¹ Not available.

² Represents production-department employees only; not comparable other years.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

No. 961.—MOTION-PICTURE PRODUCTION—WORK DONE DURING YEAR: 1939 AND 1947

[Money figures in thousands of dollars]

TYPE OF WORK DONE	1939		1947		TYPE OF WORK DONE	1939		1947	
	Num- ber	Cost of work done during year ¹	Num- ber	Cost of work done during year ¹		Num- ber	Cost of work done during year ¹	Num- ber	Cost of work done during year ¹
Motion pictures, total									
	215,700		460,143		Nontheatrical films, total		6,573		17,537
Theatrical films, total	186,776		352,530		Advertising films:				
Negative films:					Color-process		961		1,020
Feature subjects, 3,000 feet or over in length:					Black-and-white		742		2,461
Color-process	27	14,356	68	43,703	Educational films:				
Black-and-white	493	117,830	348	165,432	Color-process		4,118		1,720
Short subjects (other than news reels), under 3,000 feet in length:					Black-and-white		4,608		2,497
Color-process	125	1,723	253	4,417	Industrial films:				
Black-and-white	(2)	4,252	187	2,844	Color-process		305		1,763
News reels:		4,441		5,344	Black-and-white		1,870		3,040
Positive films (cost, excl. cost of producing negatives): ²					Other films		41,426		851
Color-process					Unfinished production (cost of work done during year)		543		3,262
Black-and-white					Receipts for use of studio facilities				
Unfinished production (cost of work done during year)	37,758		119,802		Receipts for laboratory work (including developing and printing done for others)		1,420		26,720
					Value of other work done				
							18,594		53,329
							2,337		10,027

¹ Represents cost of producing motion-picture films, receipts for use of studio facilities, receipts for laboratory work, and value of other work done.

² Not available.

¹ Represents cost of positive films made during year by establishments which performed laboratory work in connection with production of theatrical films. Data on cost of positive films made by outside laboratories included in "Receipts for laboratory work."

² Probably some "Educational films" were included as "Other films."

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures reports.

AIR-CONDITIONING EQUIPMENT

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No. 962.—SHIPMENTS OF AIR-CONDITIONING EQUIPMENT AND COMPONENTS AND ACCESSORIES FOR AIR-CONDITIONING AND COMMERCIAL-REFRIGERATION EQUIPMENT: 1940 TO 1949

[Value figures in thousands of dollars; represent manufacturer's billing prices for units actually billed and shipped. 1949 figures based on reports from 93 companies manufacturing components and accessories for air-conditioning and commercial-refrigeration and complete air-conditioning equipment. Small concerns active in 1948 as well as 1949, but not included in 1948 data, accounted for less than 2 percent of total value of shipments in 1949. Data for earlier years are less complete, and thus not strictly comparable]

PRODUCT	1940		1945		1948		1949	
	Number	Value	Number	Value	Number	Value	Number	Value
Condensing units	211,021	18,808	354,401	36,902	841,609	73,443	610,341	53,534
Ammonia refrigerants	985	964	1,785	2,503	1,120	1,709	264	346
Refrigerators except ammonia	210,036	17,844	352,016	34,399	840,480	71,644	610,087	53,188
Air-cooled	187,408	12,313	327,031	23,378	797,098	56,829	570,280	40,127
Water-cooled	22,568	5,531	25,555	11,021	43,382	14,815	39,807	13,061
Compressors and compressor units	84,889	7,084	107,340	9,578	459,390	33,493	601,810	29,771
Centrifugal-refrigeration systems	112	2,404	185	2,994	361	16,361	285	8,189
Heat-exchanger equipment	17,110	—	22,422	—	49,552	—	40,362	—
Evaporative condensers	2,413	1,769	2,885	2,820	5,560	7,605	5,147	5,646
Unit coolers	63,417	7,076	91,003	10,180	102,825	17,874	96,839	16,071
Other heat-exchanger equipment	8,265	—	9,407	—	23,178	—	18,035	—
Self-contained air-conditioning units	1 5,880	1 4,467	14,973	11,230	111,620	49,008	123,407	49,980
Ice-making machines	1,045	628	2,805	4,044	5,947	5,266	6,523	4,434

¹ Other than room-type.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M52A.

No. 963.—ALASKA—MANUFACTURES, BY INDUSTRIES: 1899 TO 1939

[Figures for 1939 do not include data for plants reporting products valued at less than \$2,000; those for earlier years cover all plants having products valued at \$500 or more. This increase in minimum value-of-products limit resulted in some reduction in "Number of establishments" reported as compared with what it would have been had minimum of \$500 been retained, but did not seriously impair comparability of figures for 1939 with those for earlier years. Comparable figures for earlier years are given for all industries for which such figures are available]

INDUSTRY	Census year	Number of establish-ments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy	Value of products	Value added by manufac-ture ¹
All industries, total	1939	230	4,816	6,883,988	20,916,757	38,815,436	17,898,679
	1919	147	6,575	8,839,452	19,482,485	41,495,243	22,012,758
	1900	152	3,099	1,948,026	5,119,613	11,340,105	8,220,402
	1890	48	2,260	1,374,680	1,762,583	4,194,421	2,431,838
Boat building and repairing	1939	7	34	23,060	59,800	149,739	89,939
	1909	6	8	2,440	3,139	10,330	7,191
Bread and other bakery products	1939	24	51	67,497	233,216	408,464	175,248
	1909	8	24	41,900	71,099	141,110	70,011
Fish canning and processing	1939	140	4,308	6,288,175	19,990,289	36,307,663	16,377,374
	1919	104	6,085	8,130,659	18,535,578	39,100,922	20,025,344
	1900	46	2,717	1,457,587	4,063,094	9,189,982	5,136,888
	1890	36	2,002	3 1,243,000	3 1,588,000	3 821,000	3 2,233,000
Ice, manufactured	1939	4	12	18,568	10,080	77,776	67,696
Lumber and timber products	1939	21	250	287,376	309,416	900,111	590,695
	1919	22	222	327,292	311,439	950,256	638,817
	1909	22	131	108,201	168,504	400,272	231,768
	1899	10	78	3 56,000	3 67,000	3 165,000	3 88,000
Machine shops	1939	7	10	20,260	44,951	112,702	67,751
Printing and publishing	1939	15	109	129,701	81,916	415,877	333,961
	1909	16	64	100,408	36,302	228,192	191,800
All other industries	1939	412	40	48,473	187,089	383,104	196,015
	1919	21	268	375,501	635,468	1,384,065	748,507
	1900	54	155	237,496	787,385	1,370,219	582,834
	1899	2	90	3 76,000	3 108,000	3 218,000	3 110,000

¹ Value of products less cost of materials, etc., fuel, and purchased electric energy.

² Figures for 1939 cover the 12-month period ended Sept. 30, 1939.

³ Exact figures not available.

⁴ Beverages, nonalcoholic, 1 establishment; concrete products, 2; confectionery, 1; ice cream, 2; liquors, malt, 2; sheet-metal work, 2; wire netting, 2. Figures for these industries are combined to avoid disclosing data reported by individual establishments.

Source: Department of Commerce, Bureau of the Census; 1939 Census of Manufactures reports.

No. 964.—HAWAII—MANUFACTURES, BY INDUSTRIES: 1899 TO 1939

[See headnote, table 963]

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy, contract work	Value of products	Value added by manufacturer ¹
				Dollars	Dollars	Dollars	Dollars
All industries, total	1939	474	17,002	11,458,311	75,651,675	134,005,264	58,353,589
	1919	496	9,969	6,636,763	81,178,950	133,096,412	51,917,486
	1909	500	5,904	2,108,903	25,817,734	47,403,880	21,586,146
	1899	222	3,655	1,473,000	12,251,000	23,354,000	11,103,000
Food and kindred products: ²							
Bread and other bakery products	1939	76	534	418,558	1,625,458	2,940,064	1,323,606
	1919	30	195	87,958	826,838	1,129,294	302,456
	1909	46	107	35,560	219,575	343,520	123,945
	1899	8	4	1,000	5,000	10,000	5,000
Beverages, alcoholic (distilled liquors, malt liquors, sake, and wines). ³	1939	59	254	249,569	705,194	2,118,907	1,413,713
Beverages, nonalcoholic	1939	27	121	97,355	350,302	816,235	459,933
	1919	32	157	88,534	251,763	518,569	266,800
	1909	22	83	35,391	74,312	194,273	119,981
	1899	7	35	11,000	25,000	89,000	64,000
Cane sugar ⁴	1939	35	4,371	2,894,420	30,482,432	49,250,987	18,708,655
	1919	43	3,143	2,027,128	45,899,268	80,236,244	34,336,976
	1909	46	2,517	781,280	18,721,621	35,949,822	17,228,201
	1899	44	2,369	748,000	9,778,000	19,255,000	9,477,000
Coffee decarmentizing	1939	9	39	19,555	401,422	464,321	62,898
	1919	10	39	20,516	875,463	1,050,762	175,289
	1909	5	71	12,100	250,705	297,268	46,588
	1899	6	47	9,000	60,000	95,000	35,000
Confectionery	1939	9	25	17,891	50,176	98,354	42,178
	1919	20	102	51,279	382,147	587,330	194,183
	1909	6	21	6,330	23,574	45,102	19,588
Fruit canning and preserving	1939	18	7,949	4,577,867	24,549,416	48,692,282	24,142,866
	1919	9	2,855	1,391,522	10,772,745	18,997,975	8,225,230
	1909	10	816	174,602	926,501	1,501,073	604,482
Canned pineapple and pine-apple juice	1939	9	7,900	4,552,667	24,462,105	48,540,806	24,078,701
Jellies, preserves, etc.	1939	9	49	25,200	87,311	151,476	64,165
Ice cream	1939	10	111	89,004	598,154	1,282,777	694,023
Ice, manufactured	1939	6	68	85,797	42,040	228,642	185,702
	1909	5	40	23,963	21,386	107,111	85,725
	1899	4	19	12,000	16,000	57,000	41,000
Macaroni and noodles	1939	8	26	16,499	40,503	86,067	45,564
	1919	4	17	8,936	76,517	97,799	21,282
Native foods	1939	56	121	64,080	331,861	599,010	267,149
Fish cakes	1939	4	26	18,967	67,921	110,005	42,081
Poi	1939	34	86	39,283	173,283	343,561	170,278
Sugar and rice cakes	1939	8	4	2,184	68,725	105,138	36,411
Tofu	1939	10	5	3,646	21,932	40,308	18,370
Pickled fruits and vegetables; vegetable sauces	1939	6	4	1,337	16,390	38,224	21,834
	1919	3	4	1,447	22,816	34,481	11,665
	1909	6	13	2,522	17,133	33,572	10,430
Potato chips; taro chips	1939	6	17	9,433	23,621	45,372	21,751
Chemicals and fertilizers	1939	6	189	180,984	1,525,294	2,160,108	634,814
Clothing, men's (including shirts) and women's	1939	16	303	149,125	479,079	777,089	208,010
	1919	15	26	11,368	37,960	79,402	41,442
	1909	4	3	600	8,985	7,630	3,045
Concrete products; stone products; lime; pottery. ⁴	1939	87	122	107,366	440,146	810,871	370,725
Footwear	1939	6	34	17,899	55,178	88,929	33,751
	1919	12	23	12,513	33,022	64,419	30,787
	1909	14	81	17,159	78,120	126,475	48,355
	1899	14	30	11,000	20,000	47,000	27,000
Furniture	1939	12	71	66,348	97,951	243,247	145,296
	1919	5	10	9,345	8,523	29,169	20,646
	1909	6	54	14,741	88,663	69,752	31,089
	1939	4	9	7,204	6,876	23,036	16,160
Furniture, household (except upholstered).	1939	4	34	28,088	54,629	128,458	73,829
Furniture, upholstered	1939	4	29	30,998	36,446	91,763	55,307
Furniture and fixtures, office and store	1939	97	95	117,839	148,708	358,103	200,455
Iron castings; steel products; machine-shop products ⁴	1939	108	28	20,447	21,757	106,419	84,002
Jewelry; silverware; electroplating ⁴	1919	6	36	26,414	46,432	107,963	61,531
	1909	6	54	24,143	51,006	111,335	60,320

For footnotes, see p. 811.

No. 964.—HAWAII—MANUFACTURES, BY INDUSTRIES: 1899 TO 1939—Continued

INDUSTRY	Census year	Number of establish- ments	Wage earners (aver- age for the year)	Wages	Cost of materials, etc., fuel, electric energy, contract work	Value of products	Value added by manufac- ture ¹
Mattresses and bed springs	1899	5	18	Dollars 11,610	Dollars 56,677	Dollars 94,605	Dollars 37,928
	1919	5	15	11,844	80,389	54,035	23,646
	1909	6	21	7,511	16,137	37,908	21,771
Picture frames; Venetian blinds ²	1939	114	86	31,722	82,572	155,984	73,412
Planing-mill products ³	1899	10	161	187,556	462,558	824,498	361,040
	1919	8	135	118,717	422,916	612,906	189,990
	1909	8	254	109,647	97,459	281,325	183,866
	1899	3	35	22,000	42,000	91,000	49,000
Printing, publishing, and allied activities.	1899	56	783	880,421	963,976	4,147,337	3,183,361
	1919	49	576	407,055	377,109	1,338,955	901,846
	1909	37	319	146,830	102,442	434,779	332,337
	1899	10	132	22,000	33,000	200,000	167,000
Newspaper publishing and printing, or publishing only.	1939	25	573	630,178	570,920	2,928,138	2,357,218
Periodical publishing and printing, or publishing only.	1939	6	8	5,293	10,001	42,073	23,072
Book publishing and printing or publishing only; job printing; lithographing; photoengraving ⁴	1899	1225	203	288,950	374,055	1,177,126	803,071
Signs, neon	1939	3	7	8,492	19,528	45,766	26,238
Soap	1939	3	3	1,630	8,502	20,347	11,755
Wood products, not elsewhere classified	1899	8	95	60,826	37,365	108,576	71,211
All other industries	1939	1448	1,422	1,086,672	12,022,425	17,413,083	5,390,658
	1919	245	2,636	2,361,687	21,103,448	28,157,119	7,055,071
	1899	273	1,450	716,624	5,175,025	7,774,880	2,599,855
	1899	126	975	837,000	2,272,000	3,510,000	1,238,000

¹ Value of products less cost of materials, etc., fuel, purchased electric energy, and contract work.² Figures include data for coffee roasting and spice grinding which are no longer treated as manufacturing activities.³ Except butter and cheese, canned tuna, rice cleaning and polishing, meat packing and sausage manufacturing, and vegetable oils and sirups. See note 14.⁴ Combined to avoid disclosing, exactly or approximately, data for individual establishments or companies.⁵ Distilled liquors, 1 establishment; malt liquors, 2; sake, 5; wines, 1.⁶ Figures for this industry relate solely to sugar mills, and do not include data for sugarcane plantations.⁷ Reported as confectionery and ice cream.⁸ Concrete products, 2 establishments; stone products, 2; lime, 2; pottery, 1.⁹ Iron castings, 1 establishment; steel products, 4; machine-shop products, 2.¹⁰ Jewelry, 6 establishments; silverware, 1; electroplating, 1.¹¹ Picture frames, 1 establishment; Venetian blinds, 3.¹² Products of planing mills not operated in conjunction with sawmills.¹³ Book publishing and printing, or publishing only, 2 establishments; job printing, 21; lithographing, 1; photoengraving, 1.¹⁴ Boat building and repairing, 5 establishments; brooms, 2; butter and cheese, 3; canned tuna, 3; caskets, 1; cushions, pillows, and quilts, 1; drugs, medicines, perfumes, 3; insulation board, 1; lighting fixtures, 1; machinery, farm, 1; machinery, sugar-mill, 1; mats, 1; meat packing, sausage manufacturing, 6; paper goods, 5; prepared foods, 2; rice cleaning and polishing, 2; skirts, hula, 1; suitcases and trunks, 1; tin cans, 7; vegetable oils and sirups, 2.

Figures for these industries are combined to avoid disclosing data reported by individual establishments.

Source: Department of Commerce, Bureau of the Census; 1930 Census of Manufactures reports.

No. 965.—PUERTO RICO—MANUFACTURES BY INDUSTRY GROUPS AND INDUSTRIES: 1949 AND 1939

[Figures for 1949 include data for all establishments. Figures for 1939 include data only for establishments with products valued at \$2,000 or more. Certain industries not shown separately to avoid disclosing operations of individual companies]

INDUSTRY GROUP AND INDUSTRY	Number of establishments	Number of proprietors and partners	1949				1939 ¹		
			All employees		Production workers		Value added by manufacture ² (\$1,000)	Number of establishments	Number of production workers (average for year)
			Number (average for year)	Salaries and wages, total (\$1,000)	Number (average for year)	Wages, total (\$1,000)			
All industries, total ³	1,998	1,821	55,137	49,205	47,735	35,736	93,421	(4)	(4)
All industries (excl. coffee roasting and grinding and tobacco stemming and redrying), total ³	1,937	1,768	49,052	46,215	42,012	33,174	87,043	798	23,484
Food and kindred products:									
Food and kindred products, exc. coffee roasting and grinding	526	473	23,243	25,516	19,615	18,251	52,432	(4)	(4)
Coffee products	607	450	23,102	25,398	19,526	18,203	51,821	379	12,996
Natural cheese	31	29	311	391	166	133	651	9	36
Ice cream and ices	4	5	37	32	31	23	47	3	9
Canning, preserving, and freezing	27	24	274	360	135	110	604	6	27
Canning and preserving, except fish	23	14	1,159	650	872	464	906	7	307
Pickles and sauces	19	12	1,132	630	851	454	824	7	307
Bakery products	277	286	2,750	2,441	2,275	1,946	3,928	219	1,470
Bread and other bakery products	265	278	2,235	1,995	1,839	1,656	3,144	212	1,143
Biscuits, crackers, and pretzels	12	8	515	446	436	201	784	7	327
Sugar	41	22	14,241	17,246	12,900	13,254	35,704	44	9,658
Raw cane sugar	36	22	13,502	16,496	12,293	12,080	32,228	40	7,765
Cane sugar refining	5	—	679	750	620	574	5,3,476	4	1,893
Chocolate and cocoa products	4	—	141	116	98	43	329	1	(d)
Beverages	73	42	3,174	3,533	2,287	1,836	8,527	53	1,006
Bottled soft drinks	33	18	863	927	428	397	1,973	10	(d)
Malt liquors	4	—	799	1,050	637	633	2,419	2	(d)
Wines and brandy	5	12	85	57	52	26	282	4	43
Distilled liquors, except brandy	31	12	1,427	1,499	1,170	779	3,852	37	657
Misc. food preparations ⁴	68	78	1,085	889	675	441	1,059	(4)	(4)
Misc. food preparations, exc. coffee roasting and grinding ⁵	49	55	944	771	586	393	1,048	36	467
Manufactured ice	29	37	515	445	241	170	340	25	285
Macaroni and spaghetti	10	10	193	185	171	156	300	8	154
Food preparations, n. e. c.	25	27	361	245	249	105	703	(4)	(4)
Food preparations, n. e. c., exc. coffee roasting and grinding	6	4	220	128	100	56	92	1	(d)
Tobacco manufactures	626	600	7,116	8,403	6,732	2,956	6,743	(4)	(4)
Tobacco manufactures, exc. tobacco stemming and redrying	584	579	1,172	551	1,098	448	977	47	445
Cigars	577	574	1,097	496	1,024	409	935	41	(d)
Chewing and smoking tobacco	7	5	75	35	74	34	42	5	30
Tobacco stemming and redrying	42	30	5,944	2,873	5,634	2,513	5,767	(4)	(4)
Textile mill products	10	2	1,450	596	1,273	475	607	3	101
Apparel and related products	263	244	10,805	6,404	9,361	4,333	9,251	135	6,307
Men's and boys' suits and coats	111	17	684	549	642	450	861	5	688
Men's and boys' furnishings	68	73	2,216	1,381	2,006	965	1,993	36	1,004
Men's dress shirts and nightwear	17	13	741	541	657	332	781	9	505
Separate trousers	35	41	1,058	603	978	408	920	18	262
Men's and boys' clothing, n. e. c.	6	10	260	129	234	91	132	1	(d)
Women's and misses' outerwear	33	29	1,149	562	1,068	451	701	15	260
Blouses and waists	18	13	757	387	700	313	497	7	(d)
Women's and children's undergarments	31	22	1,401	831	1,300	688	1,076	25	(d)

See footnotes at end of table.

MANUFACTURES OF PUERTO RICO

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No. 965.—PUERTO RICO—MANUFACTURES BY INDUSTRY GROUPS AND INDUSTRIES: 1949 AND 1939—Continued

INDUSTRY GROUP AND INDUSTRY	1949						1939		
	Number of establishments	Number of proprietors and partners	All employees		Production workers		Value added by manufacturer ² (\$1,000)	Number of establishments	Number of production workers (average for year)
			Number and wages, total (\$1,000)	Salaries and wages, average for year	Number and wages, average for year	Wages, total (\$1,000)			
Apparel and related products— Continued									
Children's outerwear	27	22	946	552	894	483	711	11	(d)
Miscellaneous apparel and accessories ³	74	68	3,828	2,284	2,989	1,650	3,485	32	1,292
Handkerchiefs	45	44	2,453	1,517	2,118	1,200	2,030	31	(d)
Housefurnishings, n. e. c.	8	6	395	147	306	123	177	8	173
Canvas products	6	5	31	48	37	32	80	1	(d)
Lumber and products (except furniture)	51	53	327	302	313	245	611	13	110
Millwork plants	43	47	300	289	286	232	589	11	(d)
Furniture and fixtures	186	193	1,888	1,519	1,727	1,229	2,338	52	830
Household furniture	177	180	1,837	1,468	1,681	1,194	2,205	49	822
Wood house furniture, except upholstered	152	161	1,443	1,071	1,343	926	1,467	39	610
Mattresses and bedsprings	13	9	266	276	222	177	511	9	(d)
Paper and allied products	5	1	294	352	258	263	825	1	(d)
Printing and publishing industries	77	63	1,459	2,216	975	1,266	3,670	50	653
Chemicals and allied products	49	21	1,268	1,510	1,011	884	4,394	39	400
Pharmaceutical preparations	20	6	209	231	149	96	542	13	(d)
Fertilizers (mixing only)	7	5	504	659	428	402	2,731	7	197
Compressed and liquefied gases	6	1	239	354	153	187	716	2	(d)
Insecticides and fungicides	3	3	7	3	7	3	12		
Leather and leather products	22	12	911	611	859	446	925	15	79
Handbags and small leather goods	7	1	389	246	367	172	380		
Stone, clay, and glass products	87	82	2,562	3,097	2,224	2,162	6,363	23	254
Products of purchased glass	3	2	21	21	17	15	38		
Structural clay products	18	12	715	724	654	548	1,634	12	155
Concrete products	42	50	317	268	281	193	408		
Cut-stone and stone products	7	6	46	71	44	66	183	3	9
Fabricated metal products	33	32	310	338	290	202	710	10	49
Structural metal products	24	22	194	255	187	221	538	6	29
Structural and ornamental products	15	17	123	153	122	151	251	3	(d)
Machinery (except electrical) ⁴	13	9	617	940	517	670	1,352	7	477
Farm machinery (except tractors)	6	4	86	133	74	85	217	3	30
Miscellaneous manufactures ⁵	44	26	2,889	1,591	2,230	1,275	2,451	12	574
Jewelry and silverware	7	2	332	320	345	234	406	1	(d)
Costume jewelry and notions	16	6	1,595	951	1,497	788	1,393	2	(d)
Artificial flowers	5	1	629	375	600	344	380		
Buttons	5	2	572	470	509	347	863	2	(d)
Morticians' goods	8	8	13	10	13	10	20	6	8
Signs and advertising displays	4	6	19	20	17	17	33	1	(d)

¹ Retabulated to provide industry statistics comparable with those for 1949.² Computed by subtracting costs of materials and supplies, fuels, electric energy, and contract work from value of products.³ Includes data for industry groups not shown separately (to avoid disclosing operations of individual companies) as follows: Rubber, primary metal industries, electrical machinery, and transportation equipment, 1 establishment each; and for instruments and related products, 2 establishments.⁴ Comparable statistics for 1939 not available. Figures for 1949 include statistics for activities of (1) coffee roasting and grinding and (2) tobacco stemming and redrying, which were classified as manufacturing in 1949 but considered nonmanufacturing in 1939.⁵ This figure may include an undetermined amount of excise taxes.⁶ Also includes shortening, cooking oils, and flavorings.⁷ Also includes fabric and combination dress and work gloves.⁸ Also includes sporting and athletic goods, hand stamps and stencils, needles, pins, and fasteners, plastic products, brooms and brushes, matches, and hair work.⁹ Withheld to avoid disclosing figures for individual companies.

Source: Department of Commerce, Bureau of the Census; Puerto Rico Census of Manufactures, 1949.